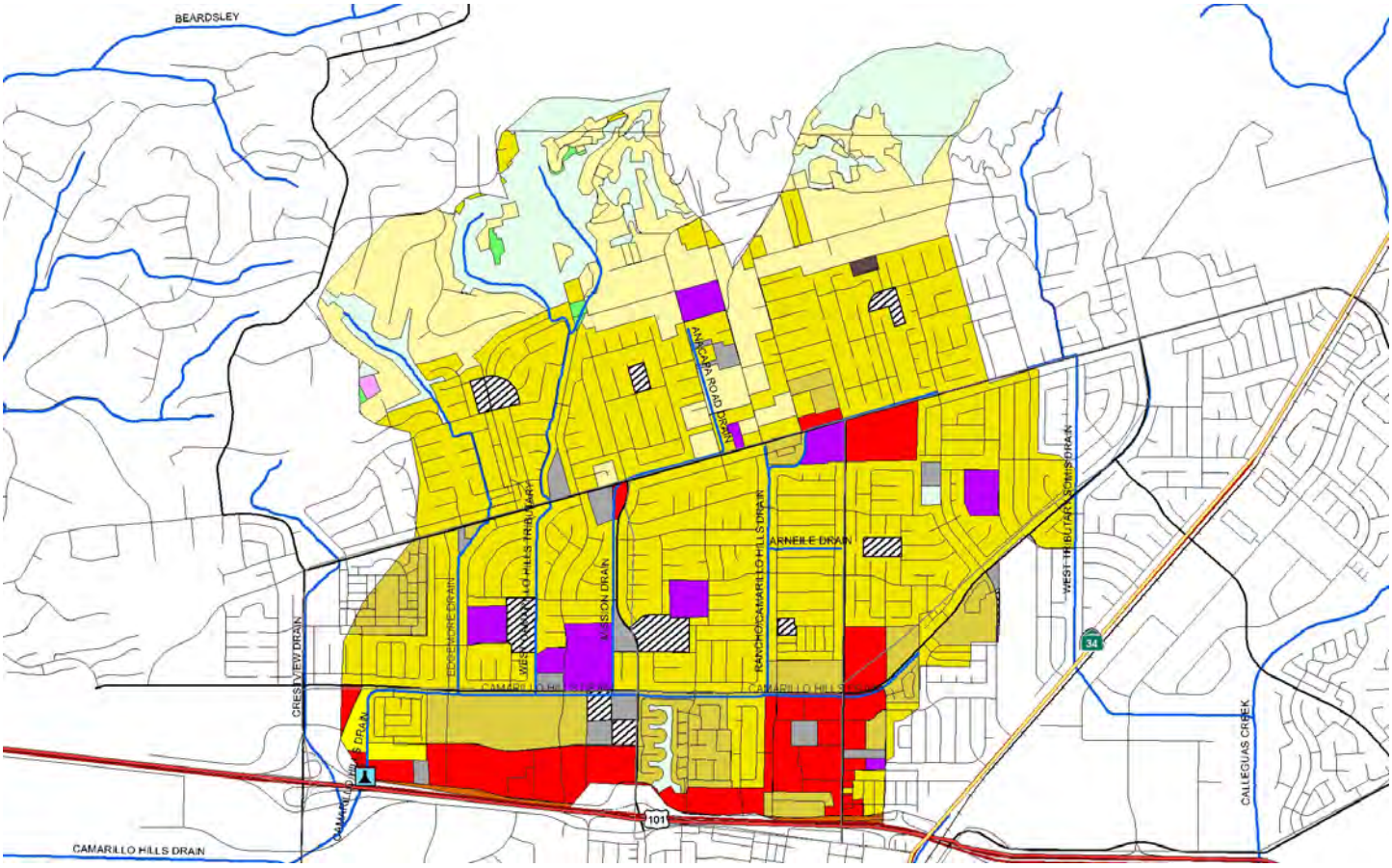
Appendix A: Major Outfall Station Fact Sheets

Camarillo

Waterbody: Camarillo Hills Drain (tributary to Revolon Slough)
Location: Daily Rd. overcrossing (34°13'10.00"N, 119° 3'58.06"W)
Pros: Likely well-defined rating table
Cons: Moderate potential for vandalism
Outstanding Site Selection Tasks: None
Other Potential Sites: None
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff



Entire City

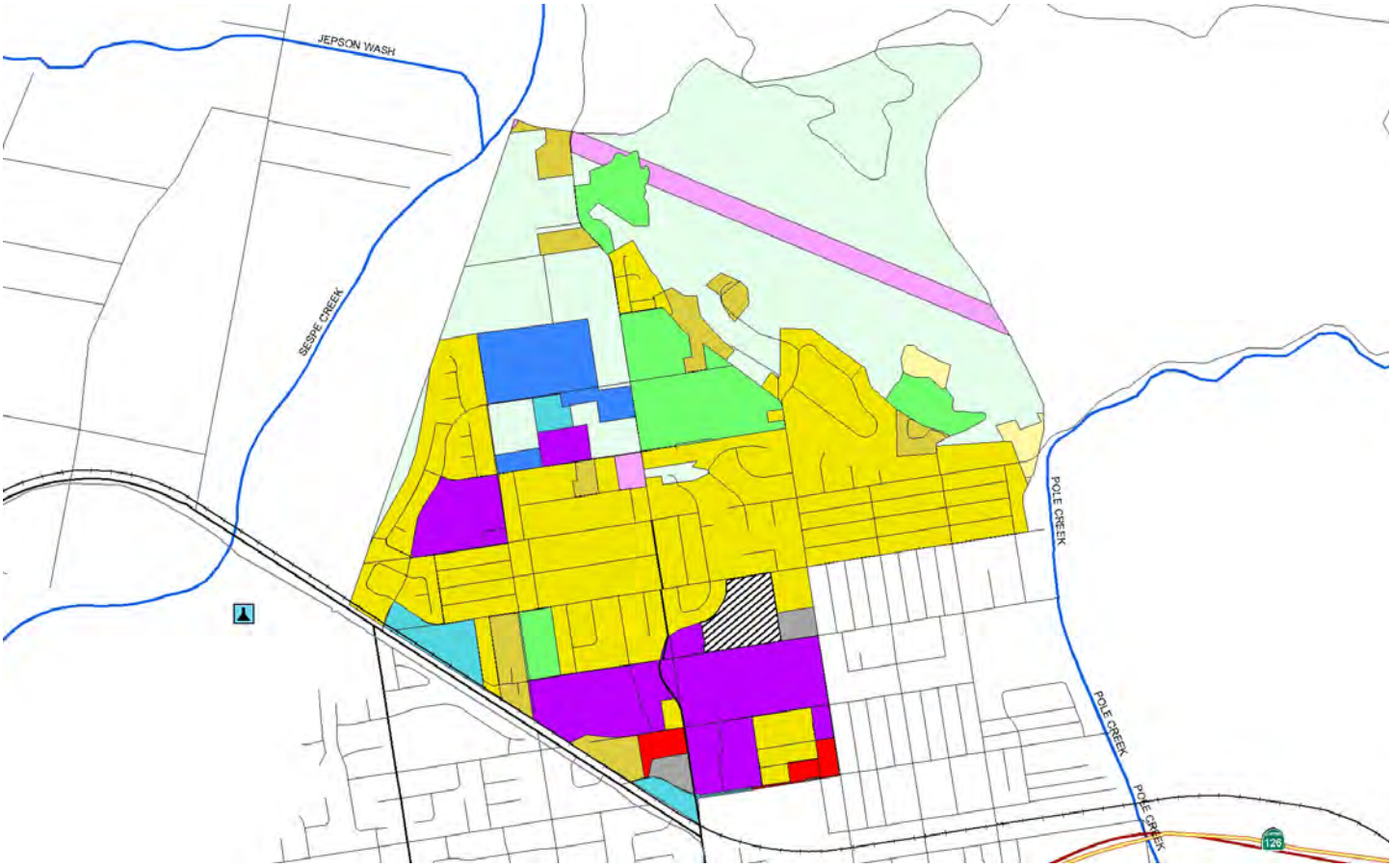
Land Use	Acres	% of Total Watershed
Agriculture	1585.8	12.6%
Com_Indus. Mix	12.5	0.1%
Commer.	657.2	5.2%
Extraction	58.4	0.5%
Facility	129.5	1.0%
Industrial_1	32.2	0.2%
Industrial_3	622.6	4.9%
Military_2	5.7	0.1%
No Info Given	202.2	1.6%
Recreation	489.4	3.9%
Res.1	1305.9	10.4%
Res.2	443.4	3.5%
Res.3	3253.5	25.9%
Res.4	525.0	4.2%
Schools	325.0	2.6%
Transportation	954.2	7.6%
Under Construction	294.8	2.3%
Utilities	255.8	2.0%
Vacant Undifferentiated	1423.4	11.4%
Totals	**12576.4**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	6.1	0.2%
Commercial	213.5	7.7%
Facility	48.5	1.7%
No Info Given	57.4	2.1%
Res.1	453.4	16.3%
Res.2	235.0	8.5%
Res.3	1365.5	49.1%
Res.4	15.2	0.5%
Schools	80.6	2.9%
Transportation	11.7	0.4%
Under Construction	2.6	0.1%
Utilities	2.3	0.1%
Vacant Undifferentiated	287.4	10.3%
Totals	**2779.1**	**100.0%**

Fillmore

Waterbody: North Fillmore Drain (tributary to Sespe Creek)
Location: 75 yds. southwest of Old Telegraph Rd. (34°24'16.51"N, 118°55'50.47"W)
Pros: Some portion of vegetation could be cleared by City of Fillmore
Cons: Potential for vandalism
Outstanding Site Selection Tasks: None
Other Potential Sites: C Street Drain and Central Ave. Drain
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff



Entire City

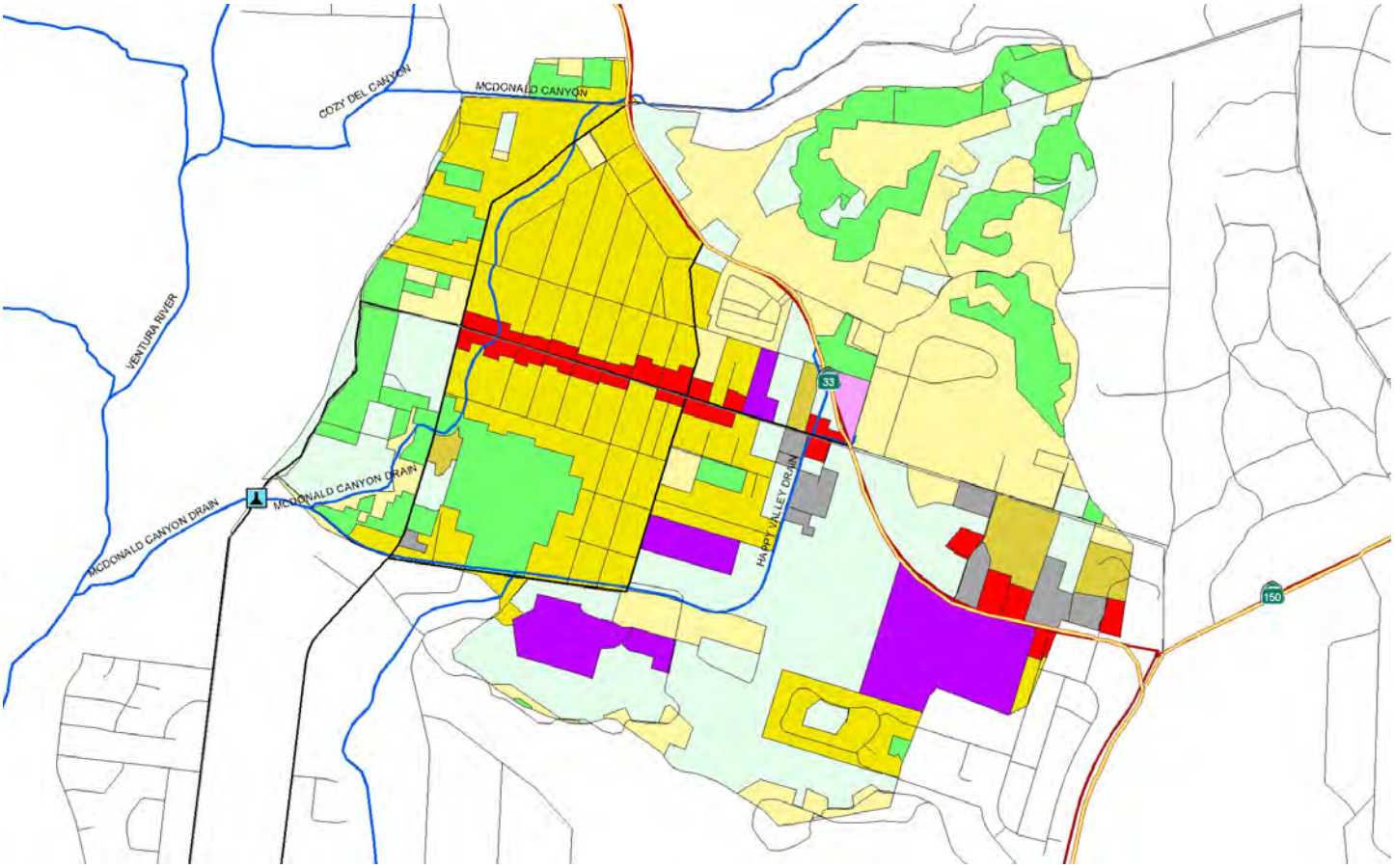
Land Use	Acres	% of Total Watershed
Agriculture	274.8	13.0%
Com_Indus. Mix	10.4	1.0%
Commercial	103.2	5.0%
Facility	27.3	1.0%
Industrial_1	31.3	2.0%
Industrial_3	28.7	1.0%
No Info Given	21.9	1.0%
Res.1	52.8	3.0%
Res.2	44.6	2.0%
Res.3	693.1	34.0%
Schools	87.6	4.0%
Transportation	6.4	0.0%
Under Constructoni	58.4	3.0%
Utilities	45.8	2.0%
Vacant Undifferentiated	582.5	28.0%
Totals	**2068.7**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	52.5	6.9%
Commercial	6.3	0.8%
Facility	5.1	0.7%
Industrial_1	14.1	1.9%
Industrial_3	23.4	3.1%
No Info Given	9.9	1.3%
Res.1	6.1	0.8%
Res.2	29.7	3.9%
Res.3	255.7	33.6%
Schools	75.3	9.9%
Utilities	23.1	3.0%
Vacant Undifferentiated	260.6	34.2%
Totals	**761.7**	**100.0%**

Meiners Oaks (Unincorporated)

Waterbody: Happy Valley Drain (tributary to Ventura River)
Location: Southwest of Lomita Rd. and Rice Rd. intersection (34°26'43.98"N, 119°17'25.18"W)
Pros: Good control, good access, existing stream flow gauge
Dry Season Flow Potential: Unknown at end of rainy season; unlikely later in summer



Entire City

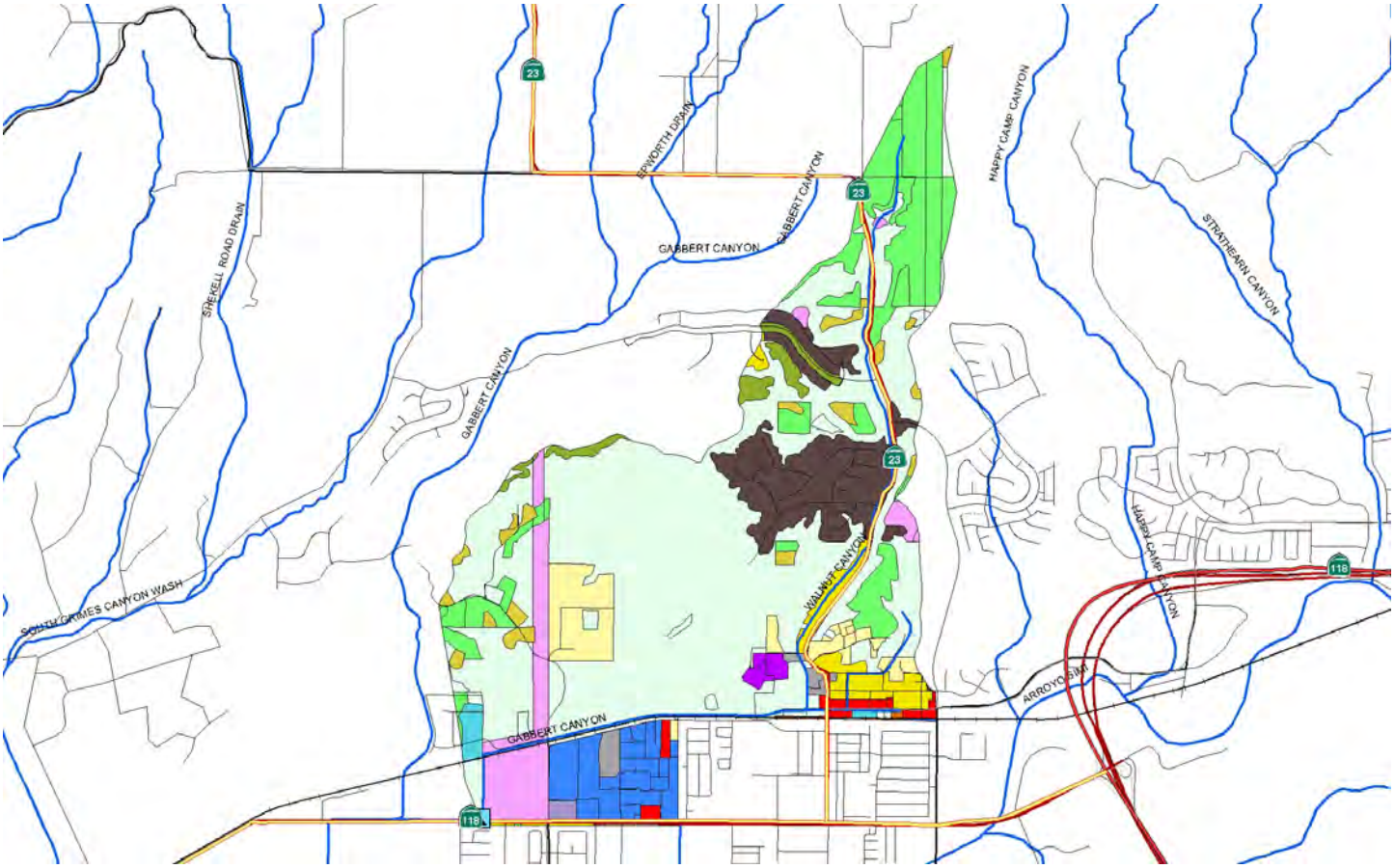
Land Use	Acres	% of Total Watershed
Agriculture	658.0	21.5%
Cemeteries	0.0	0.0%
Commercial	33.0	1.1%
Facility	15.5	0.5%
Recreation	29.9	1.0%
Res.1	812.3	26.5%
Res.2	43.9	1.4%
Res.3	463.4	15.1%
Schools	46.5	1.5%
Utilities	19.3	0.6%
Vacant Undifferentiated	945.0	30.8%
Totals	**3066.8**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	152.1	14.8%
Commercial	30.8	3.0%
Facility	20.8	2.0%
Res.1	234.0	22.8%
Res.2	22.0	2.1%
Res.3	249.9	24.4%
Schools	63.6	6.2%
Utilities	3.8	0.4%
Vacant Undifferentiated	248.8	24.3%
Totals	**1025.9**	**100.0%**

Moorpark

Waterbody: Gabbert Canyon Drain (tributary to Arroyo Las Posas)
Location: North side of SR 118 near southwest corner of So. Cal. Edison property (34°16'44.29"N, 118°54'19.40"W)
Pros: Likely well-defined rating table
Cons: Aerial deposition from vehicular traffic on 118, potential for vandalism
Outstanding Site Selection Tasks: Move sampling location shown on watershed map
Other Potential Sites: Upstream current location, although site would interfere with access road
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff



Entire City

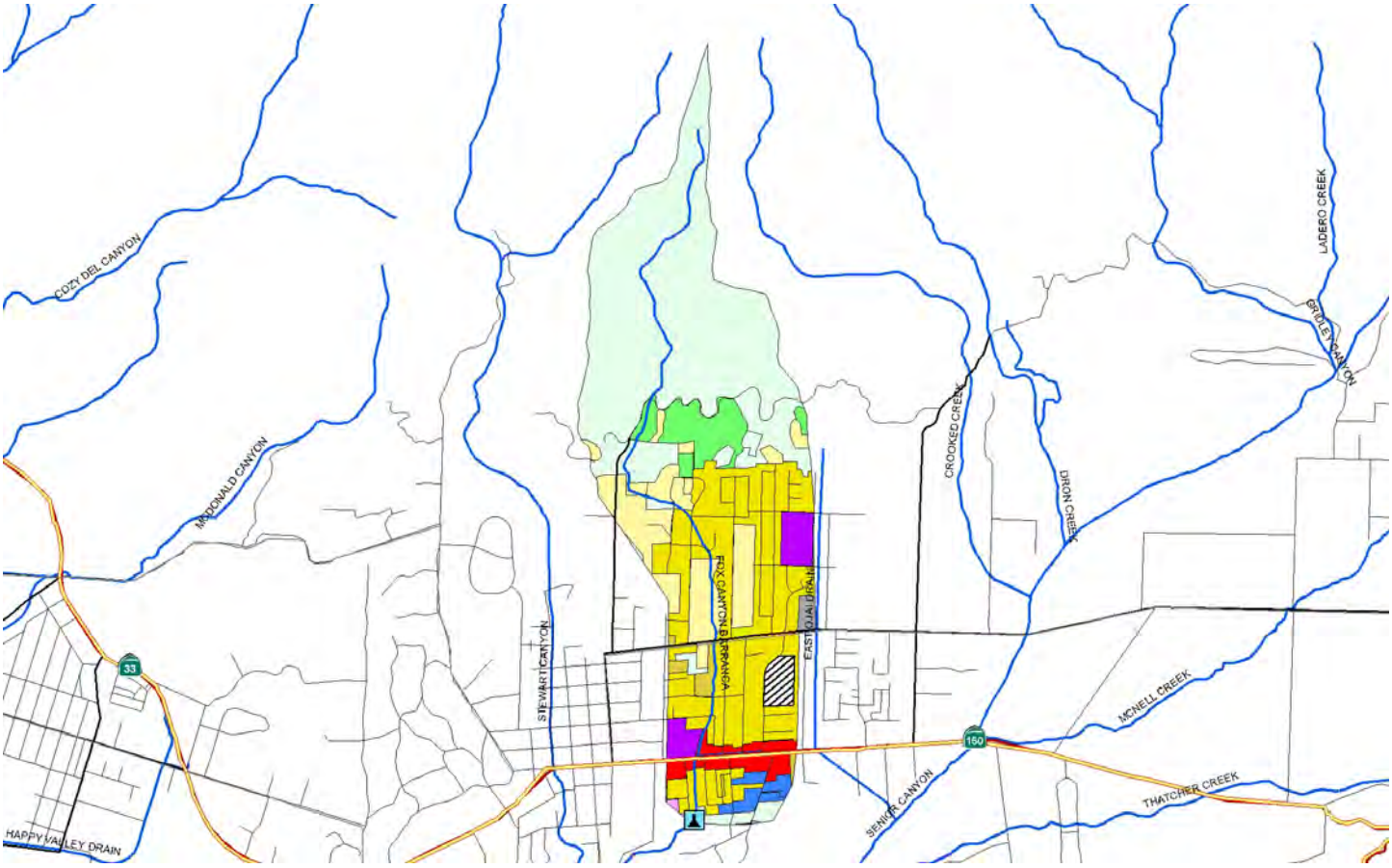
Land Use	Acres	% of Total Watershed
Land Use	**Acres**	**% of Total Watershed**
Agriculture	351.7	4.0%
Com_Indus. Mix	9.1	0.0%
Commercial	196.3	2.0%
Extraction	39.2	0.0%
Facility	40.9	1.0%
Industrial_1	21.3	0.0%
Industrial_3	225.2	3.0%
No Info Given	148.3	2.0%
Recreation	186.1	2.0%
Res.1	213.5	3.0%
Res.2	190.4	2.0%
Res.3	1854.6	23.0%
Res.4	106.8	1.0%
Schools	302.1	4.0%
Transportation	198.0	2.0%
Under Construction	472.9	6.0%
Utilities	211.9	3.0%
Vacant Undifferentiated	3213.1	40.0%
Totals	**7981.5**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	230.0	12.7%
Commercial	19.9	1.1%
Extraction	5.8	0.3%
Facility	16.8	0.9%
Industrial_1	13.3	0.7%
Industrial_3	90.4	5.0%
Recreation	31.0	1.7%
Res.1	82.3	4.5%
Res.2	37.4	2.1%
Res.3	56.3	3.1%
Res.4	1.5	0.1%
Schools	10.5	0.6%
Transportation	3.1	0.2%
Under Construction	166.2	9.2%
Utilities	100.7	5.5%
Vacant Undifferentiated	950.8	52.4%
Totals	**1816.2**	**100.0%**

Ojai

Waterbody: Fox Canyon Barranca (tributary to San Antonio Creek)
Location: Concrete box channel upstream Ojai Valley Athletic Club and downstream pedestrian walkway (34°26'41.25"N, 119°14'28.43"W)
Pros: Numerous bridges to sample from, located behind VCWPD gate, likely well-defined rating table
Cons: Some potential for vandalism
Outstanding Site Selection Tasks: Work with VCWPD O&M to ensure enclosure doesn't interfere with maintenance activities
Other Potential Sites: Downstream where Stewart Canyon crosses beneath Ventura St. (bioassessment #8)
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff



Entire Watershed

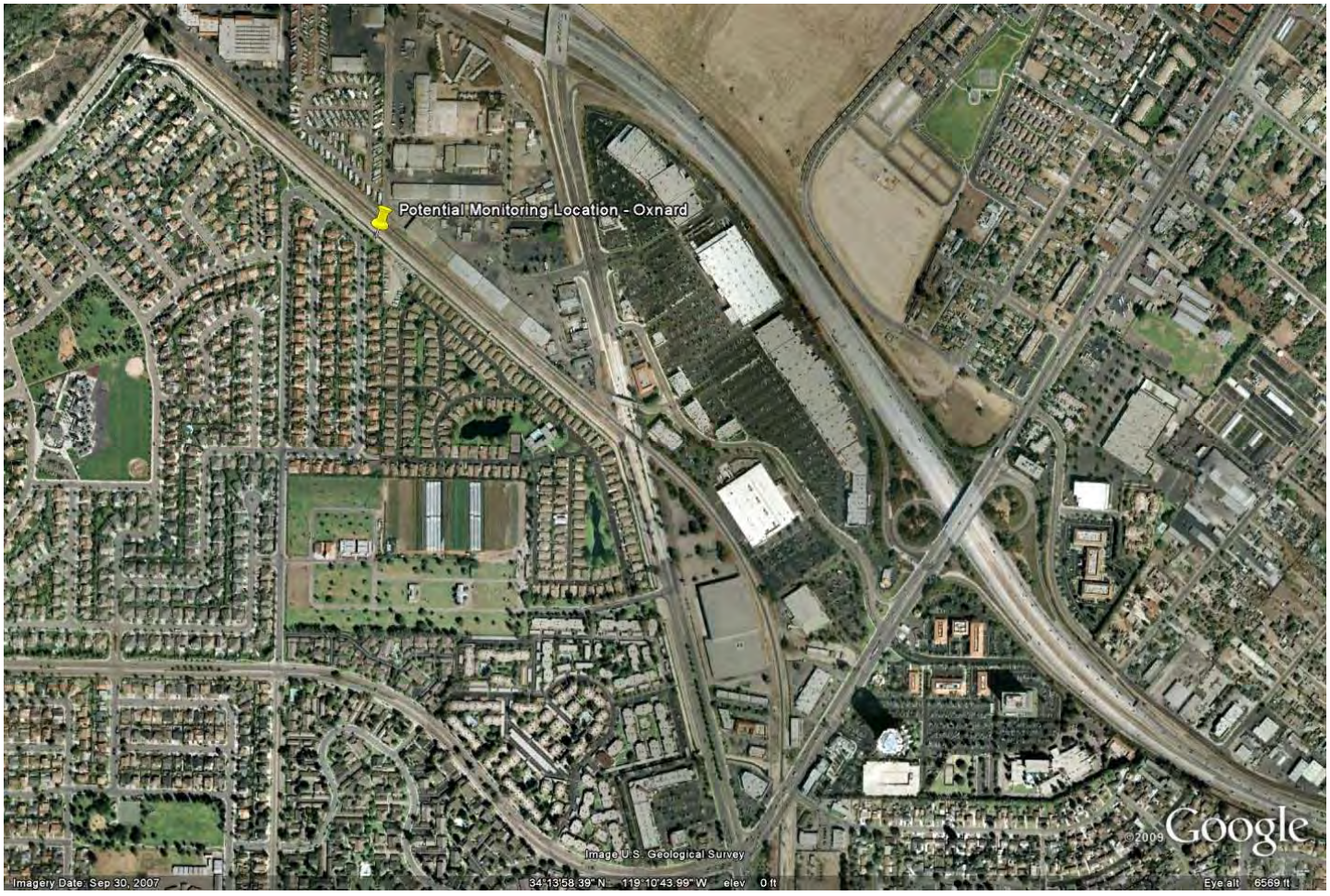
Land Use	Acres	% of Total Watershed
Agriculture	83.1	3.0%
Cemeteries	3.8	0.1%
Com_Indus. Mix	7.6	0.3%
Commercial	155.1	5.6%
Facility	43.2	1.5%
Industrial_3	13.2	0.5%
No Info Given	55.6	2.0%
Recreation	312.1	11.2%
Res.1	620.7	22.2%
Res.2	61.3	2.2%
Res.3	534.8	19.1%
Res.4	3.3	0.1%
Schools	100.6	3.6%
Utilities	32.9	1.2%
Vacant Undifferentiated	767.1	27.5%
Totals	**2794.7**	**100.0%**

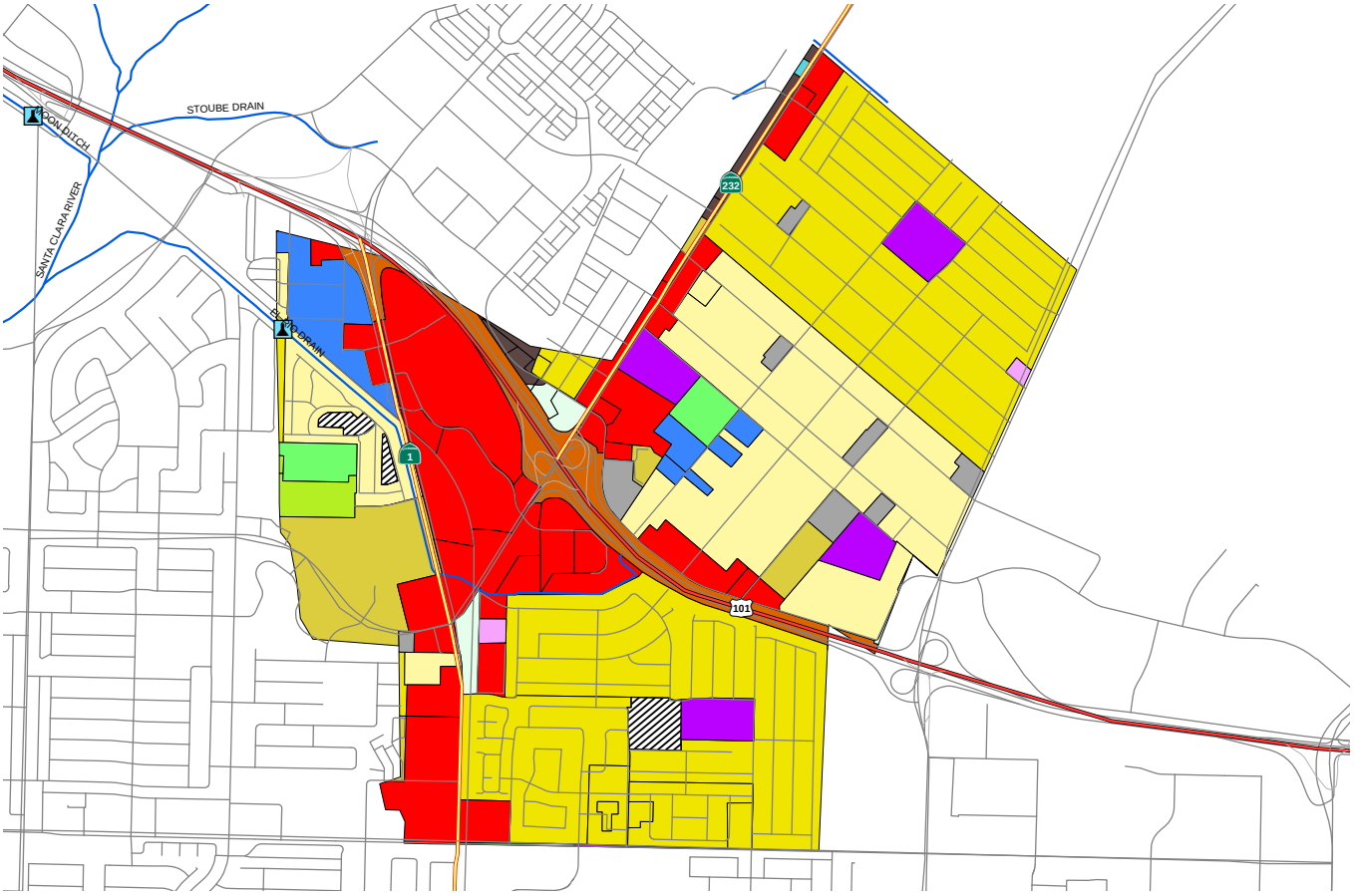
Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	37.3	5.0%
Commercial	23.8	3.2%
Facility	4.1	0.6%
Industrial_3	11.4	1.5%
No Info Given	10.0	1.3%
Recreation	0.1	0.0%
Res.1	84.3	11.3%
Res.2	8.0	1.1%
Res.3	210.9	28.2%
Res.4	0.1	0.0%
Schools	20.2	2.7%
Utilities	1.0	0.1%
Vacant Undifferentiated	337.5	45.1%
Totals	**748.6**	**100.0%**

Oxnard

Waterbody: El Rio Drain (tributary to Santa Clara River)
Location: Pedestrian bridge 50 yds. southwest bend of Winchester Dr. (34°14'10.10"N, 119°11'3.93"W)
Pros: Likely well-defined rating table
Cons: High potential for vandalism
Outstanding Site Selection Tasks: None
Other Potential Sites: None
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff





Entire City

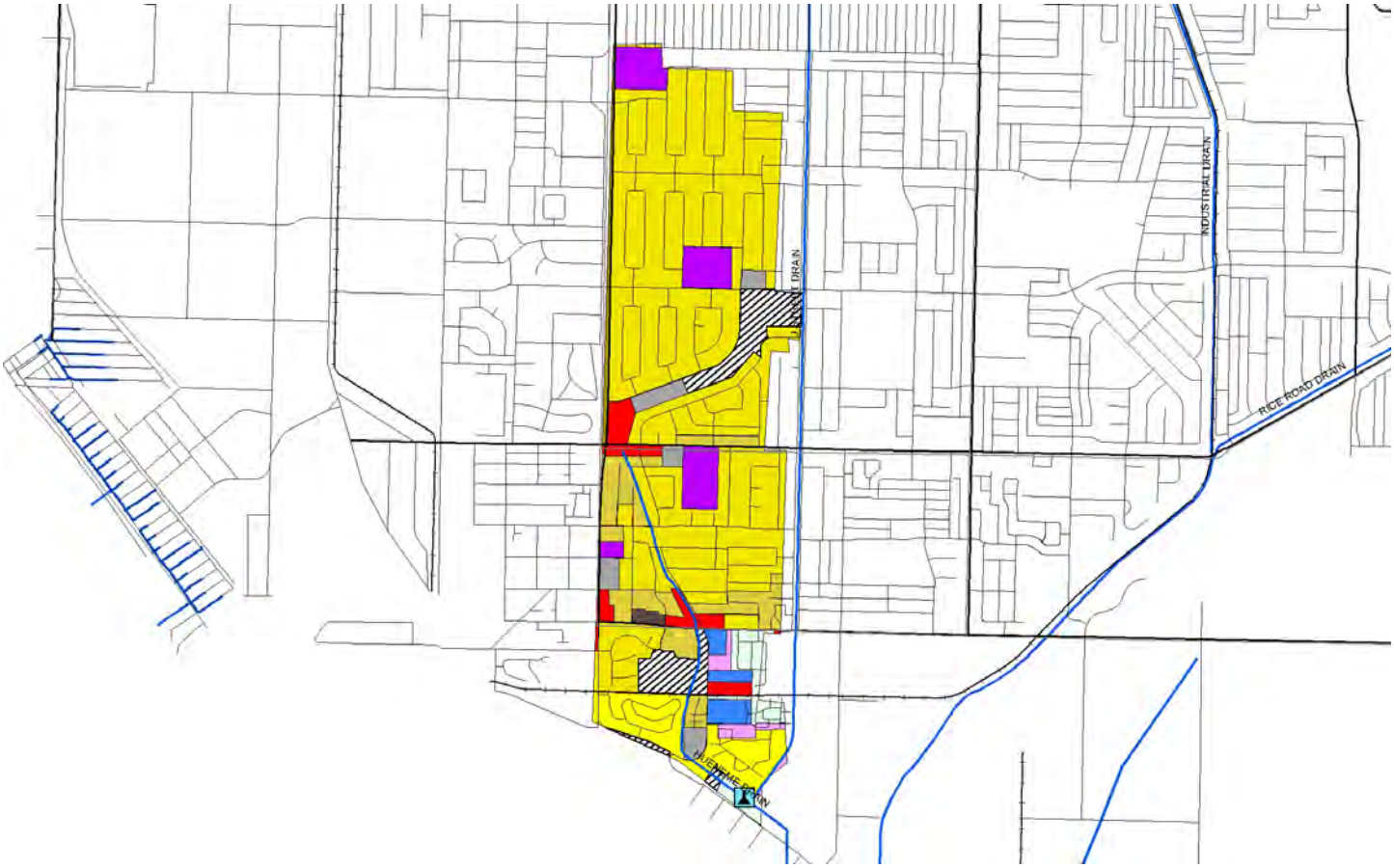
Land Use	Acres	% of Total Watershed
Agriculture	969.4	5.6%
Cemeteries	22.4	0.1%
Com_Indus. Mix	165.1	0.9%
Commercial	1385.9	8.0%
Extraction	227.3	1.3%
Facility	244.8	1.4%
Industrial_1	163.7	1.0%
Industrial_3	1104.0	6.5%
Industrial_4	62.3	0.4%
Military_1	1.7	0.0%
Military_2	4.0	0.0%
No Info Given	371.6	2.2%
Recreation	679.4	3.9%
Res.1	369.1	2.2%
Res.2	1149.3	6.7%
Res.3	5892.4	34.3%
Res.4	163.0	1.0%
Schools	703.5	4.1%
Transportation	560.5	3.3%
Under Construction	802.6	4.7%
Utilities	298.0	1.8%
Vacant Undifferentiated	1740.2	10.1%
Water	82.0	0.5%
Totals	**17162.2**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	19.0	1.5%
Cemeteries	9.7	0.7%
Commercial	253.5	19.5%
Facility	22.1	1.7%
Industrial_1	0.7	0.1%
Industrial_3	40.4	3.1%
No Info Given	14.0	1.1%
Res.1	243.3	18.7%
Res.2	69.8	5.4%
Res.3	500.1	38.5%
Schools	42.9	3.3%
Transportation	55.3	4.3%
Under Construction	12.4	1.0%
Utilities	3.5	0.3%
Vacant Undifferentiated	11.7	0.9%
Totals	**1298.2**	**100.0%**

Port Hueneme

Waterbody: Hueneme Drain (tributary to Pacific Ocean)
Location: Pump Station 300 yds. downstream Surfside Dr. (34°8'26.91"N, 119°11'17.58"W)
Pros: Grass-covered sides fairly stable
Cons: Lots of activity nearby, high potential for vandalism, stagnant water
Outstanding Site Selection Tasks: Verify positive flow
Other Potential Sites: At Surfside Rd. at lower end of Bubbling Springs Park
Dry Season Flow Potential: Likely year-round flow due to urban runoff and groundwater contribution



Entire City

Land Use	Acres	% of Total Watershed
Commercial	105.4	3.7%
Facility	20.4	0.7%
Industrial_1	32.5	1.1%
Industrial_3	34.9	1.2%
Military_2	1558.4	54.0%
No Info Given	53.7	1.9%
Recreation	38.5	1.3%
Res.2	308.3	10.7%
Res.3	432.9	15.0%
Res.4	104.3	3.6%
Schools	41.6	1.4%
Transportation	29.7	1.0%
Under Construction	2.1	0.1%
Utilities	6.0	0.2%
Vacant Undifferentiated	35.4	1.2%
Water	83.6	2.9%
Totals	**2887.9**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Commercial	19.2	3.3%
Facility	15.1	2.6%
Industrial_3	10.0	1.7%
Military_2	5.7	1.0%
No Info Given	35.8	6.1%
Res.2	45.5	7.7%
Res.3	359.1	60.9%
Res.4	40.9	6.9%
Schools	32.6	5.5%
Under Construction	2.1	0.4%
Utilities	6.5	1.1%
Vacant Undifferentiated	16.8	2.9%
Totals	589.4	100.0%

Santa Paula

Waterbody: 11th Street Drain (tributary to Santa Clara River)
Location: Upstream Santa Paula Airport (34°20'54.99"N, 119° 3'19.82"W)
Pros: Excellent flat pad on top of outfall for sampling equipment
Cons: High potential for vandalism
Outstanding Site Selection Tasks: None
Other Potential Sites: None
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff. No flow at time of initial observation

Entire City

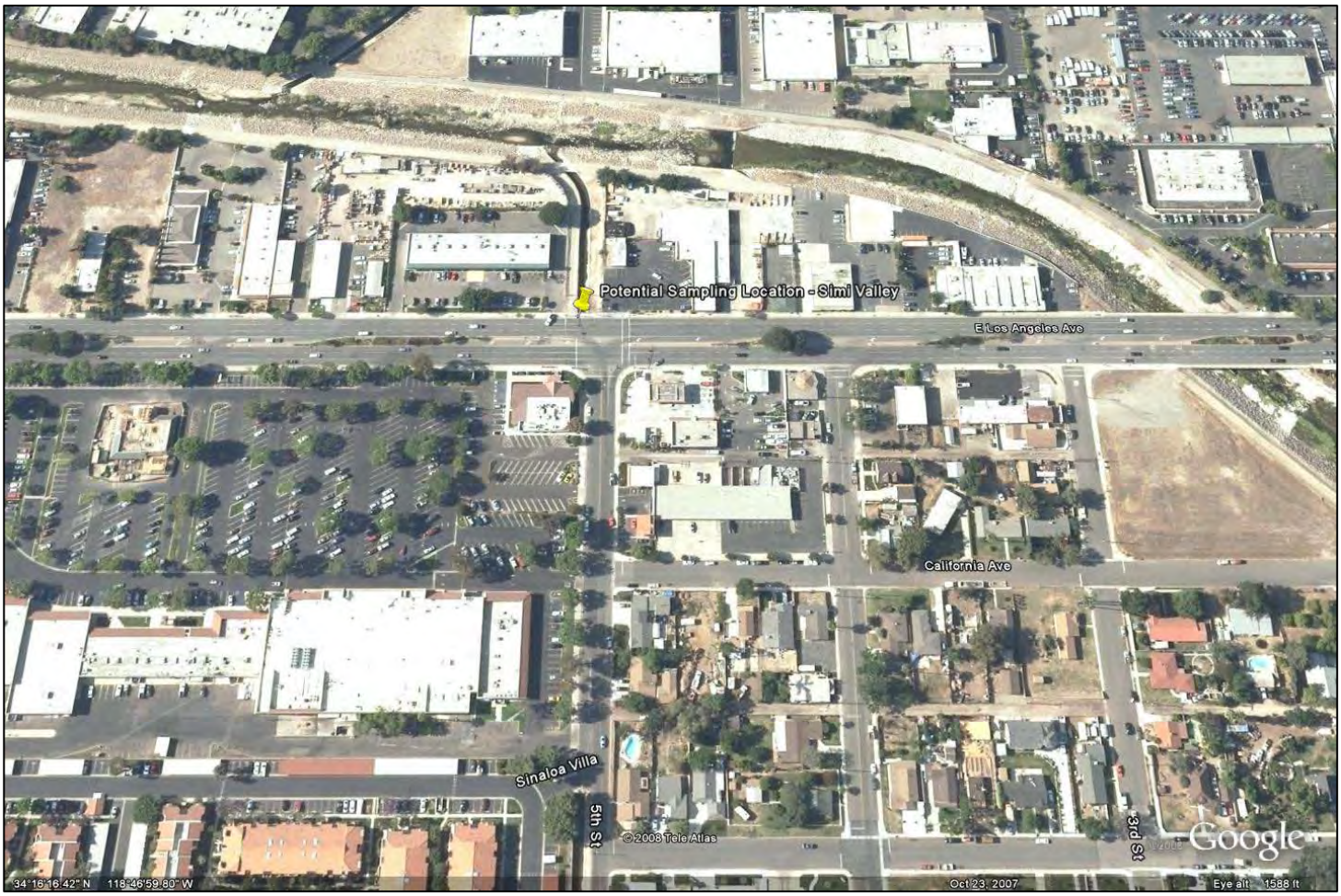
Land Use	Acres	% of Total Watershed
Agriculture	210.3	7.0%
Cemeteries	19.4	0.7%
Com_Indus. Mix	4.6	0.2%
Commercial	235.4	7.8%
Extraction	30.5	1.0%
Facility	42.4	1.4%
Industrial_1	73.7	2.4%
Industrial_3	133.0	4.5%
No Info Given	33.5	1.1%
Recreation	4.7	0.2%
Res.1	266.9	8.9%
Res.2	86.8	2.9%
Res.3	1065.9	35.5%
Res.4	46.8	1.6%
Schools	91.7	3.1%
Transportation	166.4	5.5%
Under Construction	8.7	0.3%
Utilities	41.1	1.4%
Vacant Undifferentiated	440.6	14.7%
Totals	**3002.4**	**100.0%**

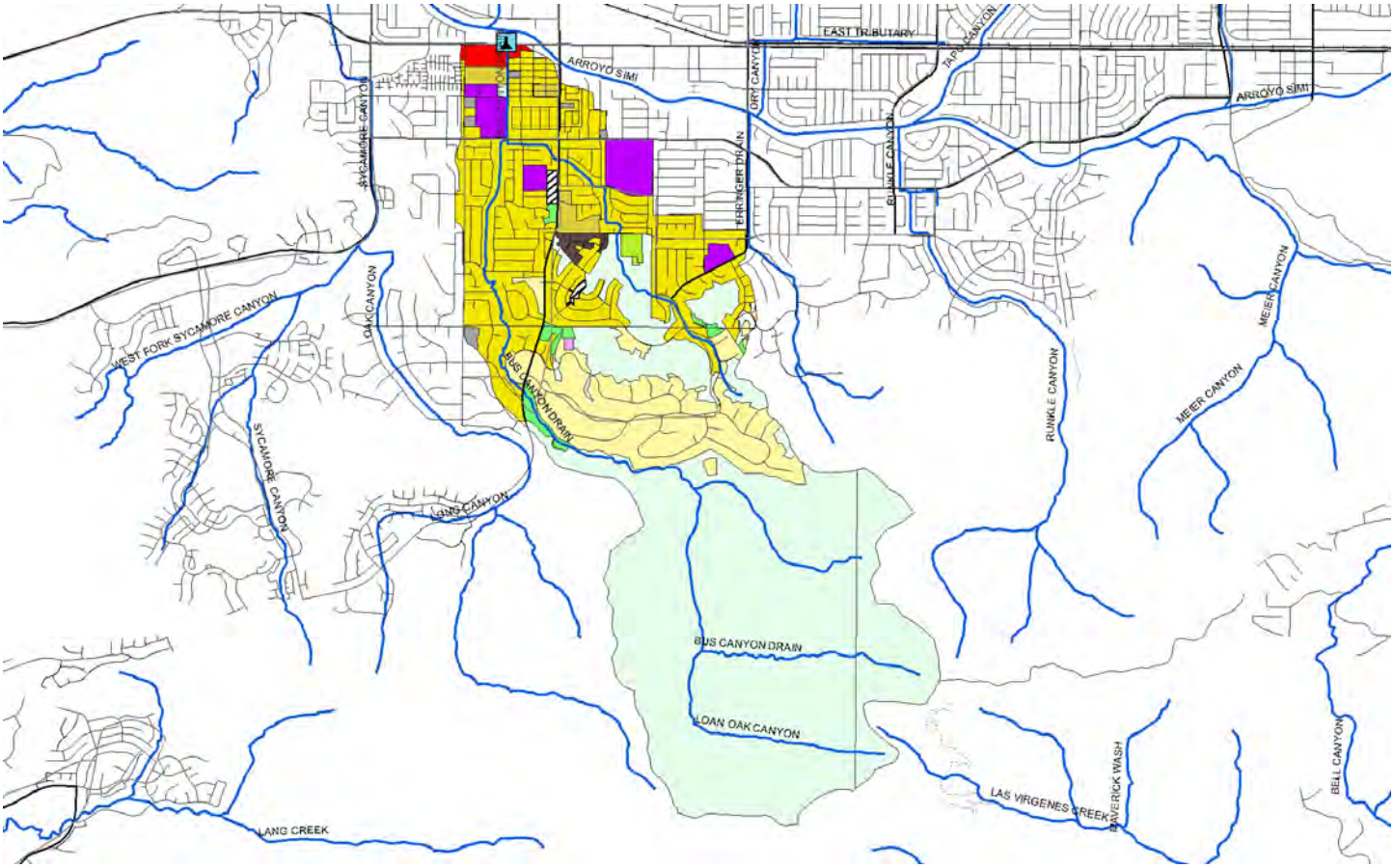
Selected Subwatershed

Land Use	Acres	% of Total Watershed
Commercial	9.4	14.7%
Industrial_1	2.5	4.0%
Res.2	2.8	4.3%
Res.3	30.5	47.7%
Schools	6.4	10.0%
Transportation	6.8	10.6%
Utilities	4.9	7.6%
Vacant Undifferentiated	0.8	1.2%
Totals	**64.0**	**100.0%**

Simi Valley

Waterbody: Bus Canyon Drain (tributary to Arroyo Simi)
Location: North of intersection at 5th St. and Los Angeles Ave. (34°16'18.59"N, 118°47'1.51"W)
Pros: Likely well-defined rating table, located behind VCWPD gate
Cons: Pedestrian traffic on levee nearby
Outstanding Site Selection Tasks: Assess impacts of large groundwater discharge upstream, move sampling location shown on watershed map
Other Potential Sites: Upstream at 5th and Ventura Ave.
Dry Season Flow Potential: Likely year round flow due to urban runoff and groundwater discharge upstream





Entire City

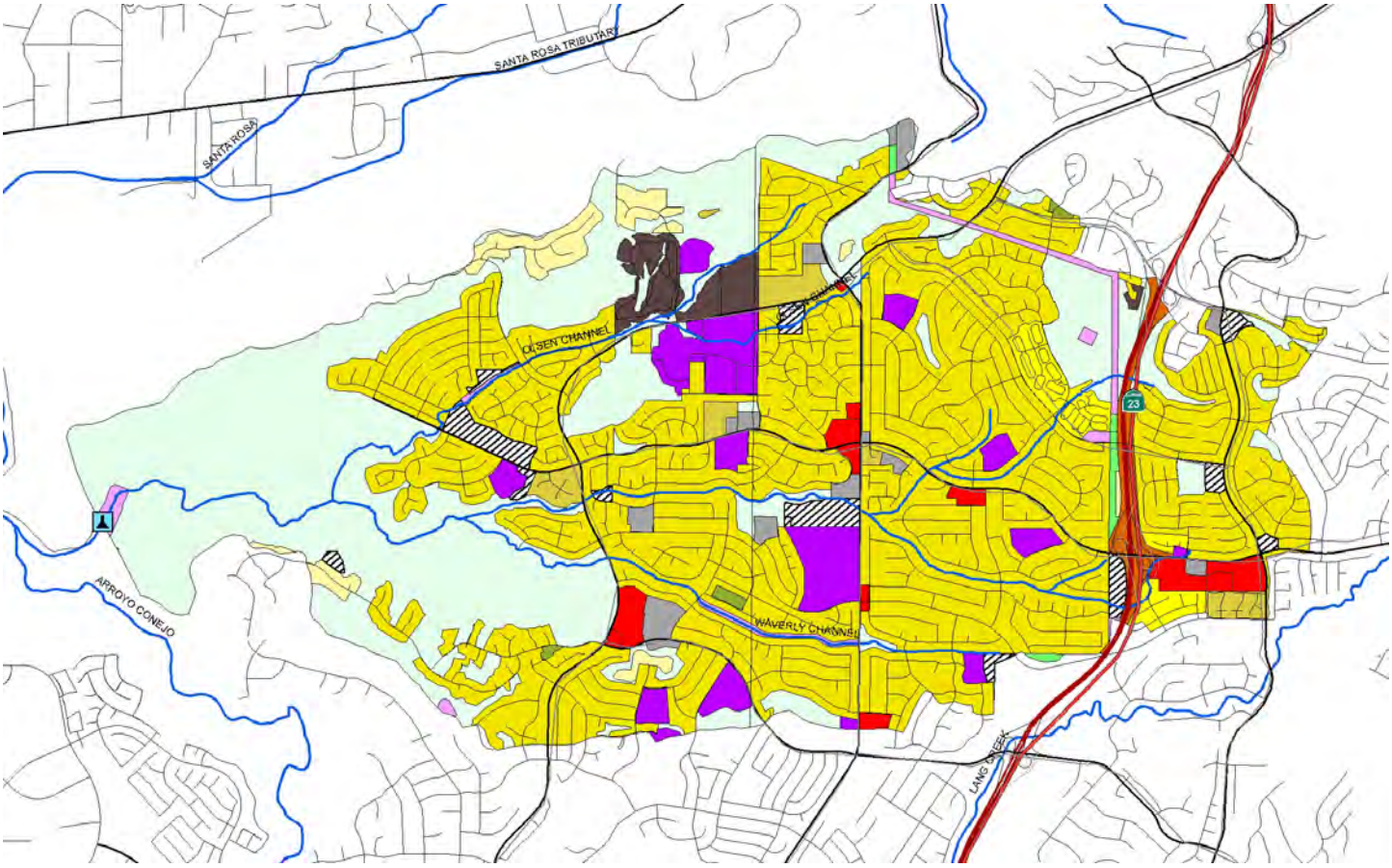
Land Use	Acres	% of Total Watershed
Agriculture	435.5	1.6%
Cemeteries	34.3	0.1%
Com_Indus. Mix	24.4	0.1%
Commercial	1051.4	3.9%
Extraction	111.8	0.4%
Facility	217.1	0.8%
Industrial_1	50.3	0.2%
Industrial_3	353.3	1.3%
Industrial_4	5.9	0.0%
No Info Given	382.0	1.5%
Recreation	560.9	2.0%
Res.1	1025.0	3.7%
Res.2	586.0	2.2%
Res.3	7947.7	29.5%
Res.4	110.7	0.4%
Schools	517.5	1.9%
Transportation	546.9	2.0%
Under Construction	385.6	1.4%
Utilities	261.0	1.0%
Vacant Undifferentiated	12291.5	45.6%
Totals	**26898.6**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	33.0	1.0%
Cemeteries	10.1	0.3%
Commercial	22.6	0.7%
Facility	12.9	0.4%
No Info Given	9.4	0.3%
Res.1	395.5	11.9%
Res.2	40.3	1.2%
Res.3	782.9	23.6%
Schools	96.7	2.9%
Under Construction	15.5	0.5%
Utilities	1.8	0.1%
Vacant Undifferentiated	1900.0	57.2%
Totals	**3320.7**	**100.0%**

Thousand Oaks

Waterbody: North Fork Arroyo Conejo (tributary to Conejo Creek)
Location: Hill Canyon WWTP sampling location R-1(34°12'49.16"N, 118°55'16.24"W)
Pros: Very secure, helpful staff onsite, fairly well-defined channel, accessible via concrete stairs
Cons: Late-night access to WWTP could present problem
Outstanding Site Selection Tasks: None
Other Potential Sites: None
Dry Season Flow Potential: Likely year-round flow due to urban runoff



Entire City

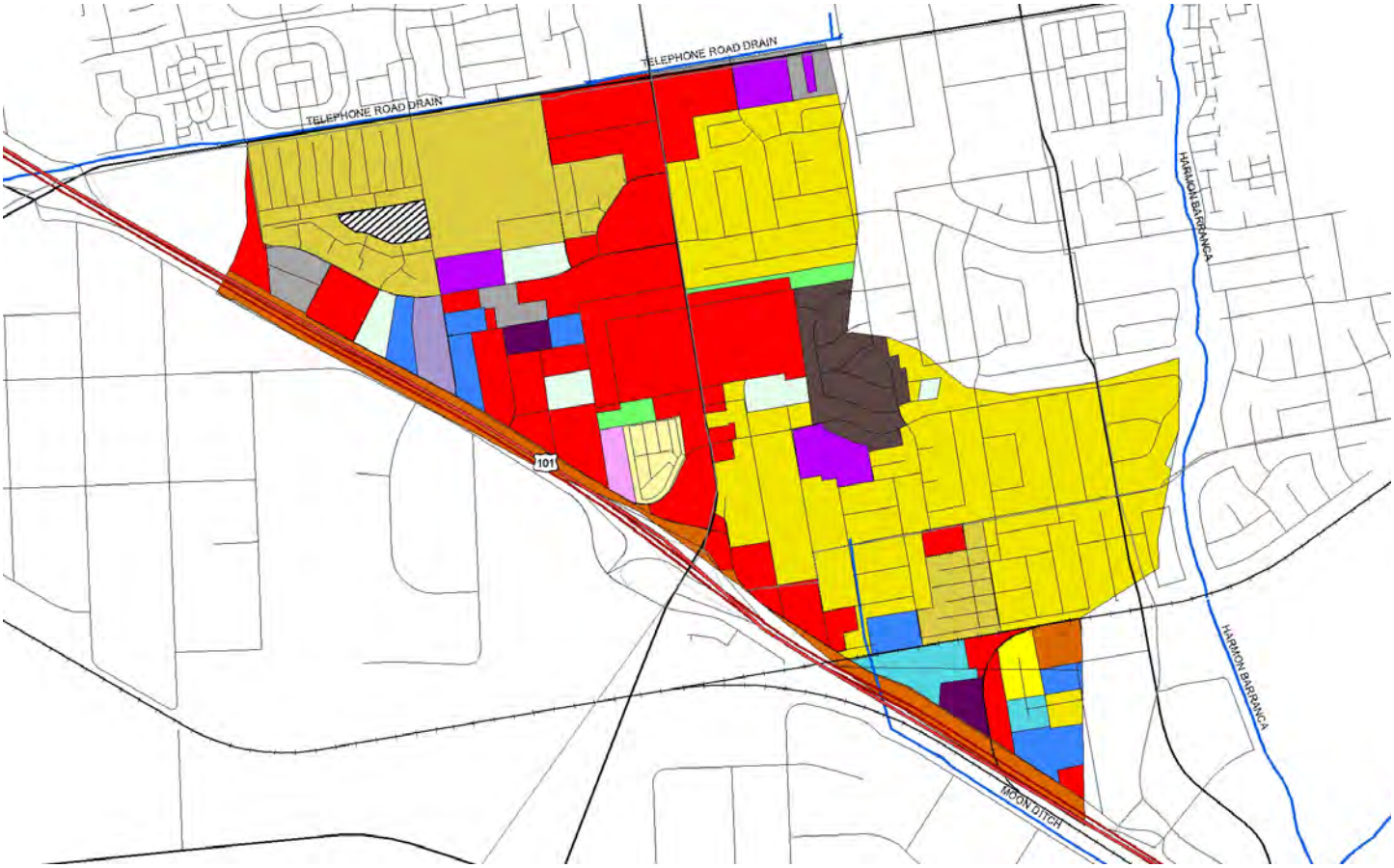
Land Use	Acres	% of Total Watershed
Agriculture	207.0	0.6%
Com_Indus. Mix	23.2	0.1%
Commercial	1499.7	4.2%
Extraction	9.0	0.0%
Facility	291.6	0.8%
Industrial_1	94.3	0.3%
Industrial_3	457.7	1.3%
No Info Given	459.2	1.3%
Recreation	574.2	1.7%
Res.1	1683.9	4.7%
Res.2	1000.3	2.8%
Res.3	9323.6	26.4%
Res.4	288.1	0.8%
Schools	587.6	1.7%
Transportation	605.4	1.7%
Under Construction	281.6	0.8%
Utilities	260.6	0.7%
Vacant Undifferentiated	17465.1	49.7%
Totals	**35111.8**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	13.5	0.3%
Commercial	83.5	1.6%
Facility	67.3	1.3%
No Info Given	95.4	1.8%
Recreation	8.7	0.2%
Res.1	89.8	1.7%
Res.2	71.5	1.4%
Res.3	2643.8	51.0%
Res.4	84.0	1.6%
Schools	224.2	4.3%
Transportation	61.5	1.2%
Under Construction	79.4	1.5%
Utilities	53.3	1.0%
Vacant Undifferentiated	1603.6	31.0%
Totals	**5179.3**	**100.0%**

Ventura

Waterbody: Moon Ditch (tributary to Santa Clara River)
Location: Between Leland St. and US 101, north of Johnson Dr. (34°14'35.86"N, 119°11'40.86"W)
Pros: Likely well-defined rating table, fairly good protection (located behind VCWPD gate)
Cons: Wide concrete bottom will spread out low flows, placement of intake somewhat difficult
Outstanding Site Selection Tasks: None
Other Potential Sites: None
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff



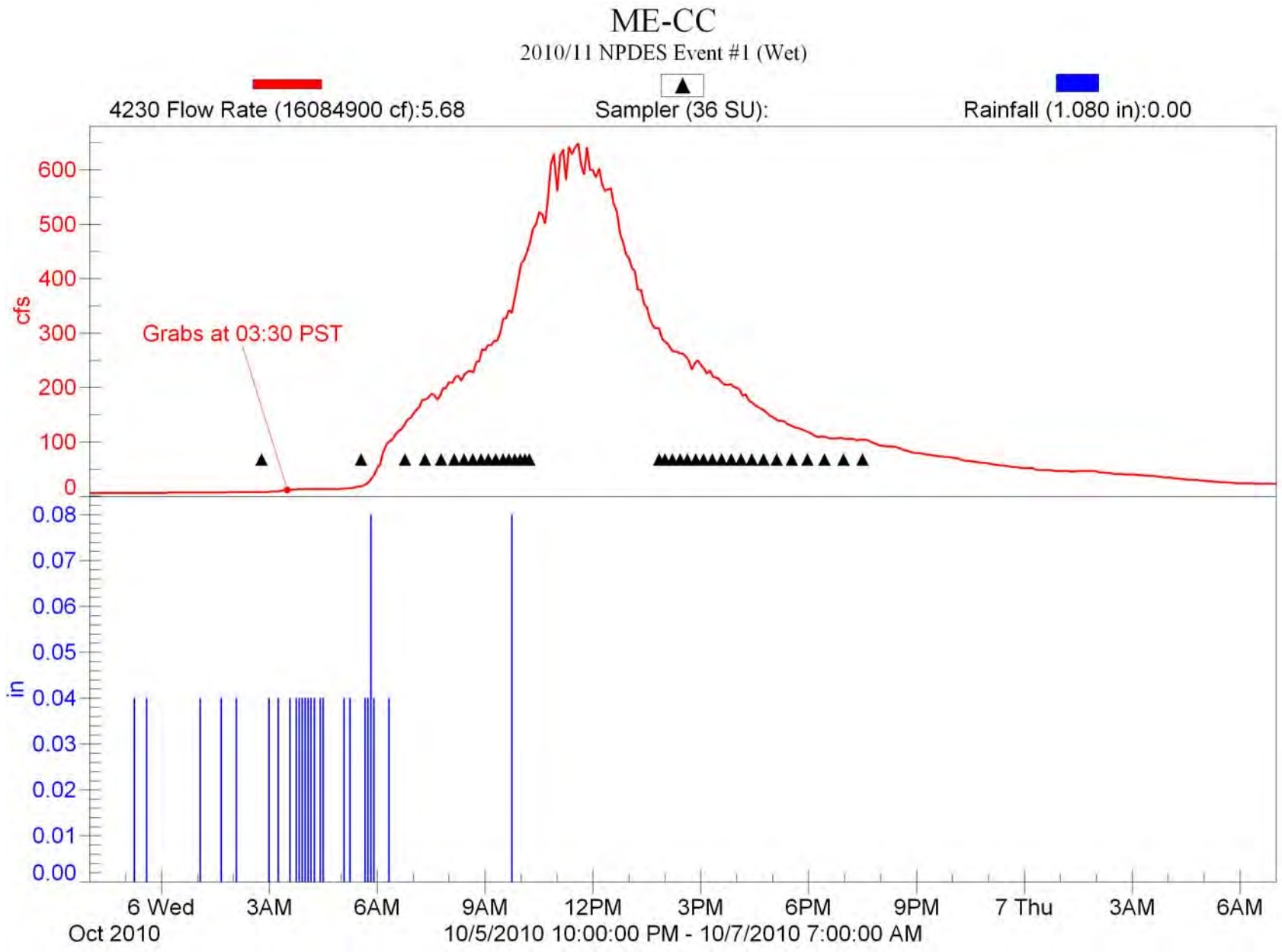
Entire City

Land Use	Acres	% of Total Watershed
Agriculture	667.6	4.7%
Cemeteries	72.6	0.5%
Com_Indus. Mix	95.4	0.7%
Commercial	1402.9	10.0%
Extraction	39.2	0.3%
Facility	303.8	2.2%
Industrial_1	90.5	0.6%
Industrial_3	619.6	4.5%
Military_2	3.6	0.0%
No Info Given	285.7	2.1%
Recreation	516.3	3.7%
Res.1	361.1	2.6%
Res.2	924.0	6.6%
Res.3	5209.6	37.2%
Res.4	72.4	0.5%
Res.5	2.8	0.0%
Schools	495.8	3.6%
Transportation	570.0	4.1%
Under Construction	73.7	0.5%
Utilities	125.4	0.9%
Vacant Undifferentiated	2018.1	14.4%
Water	61.5	0.4%
Totals	**14011.6**	**100.0%**

Selected Subwatershed

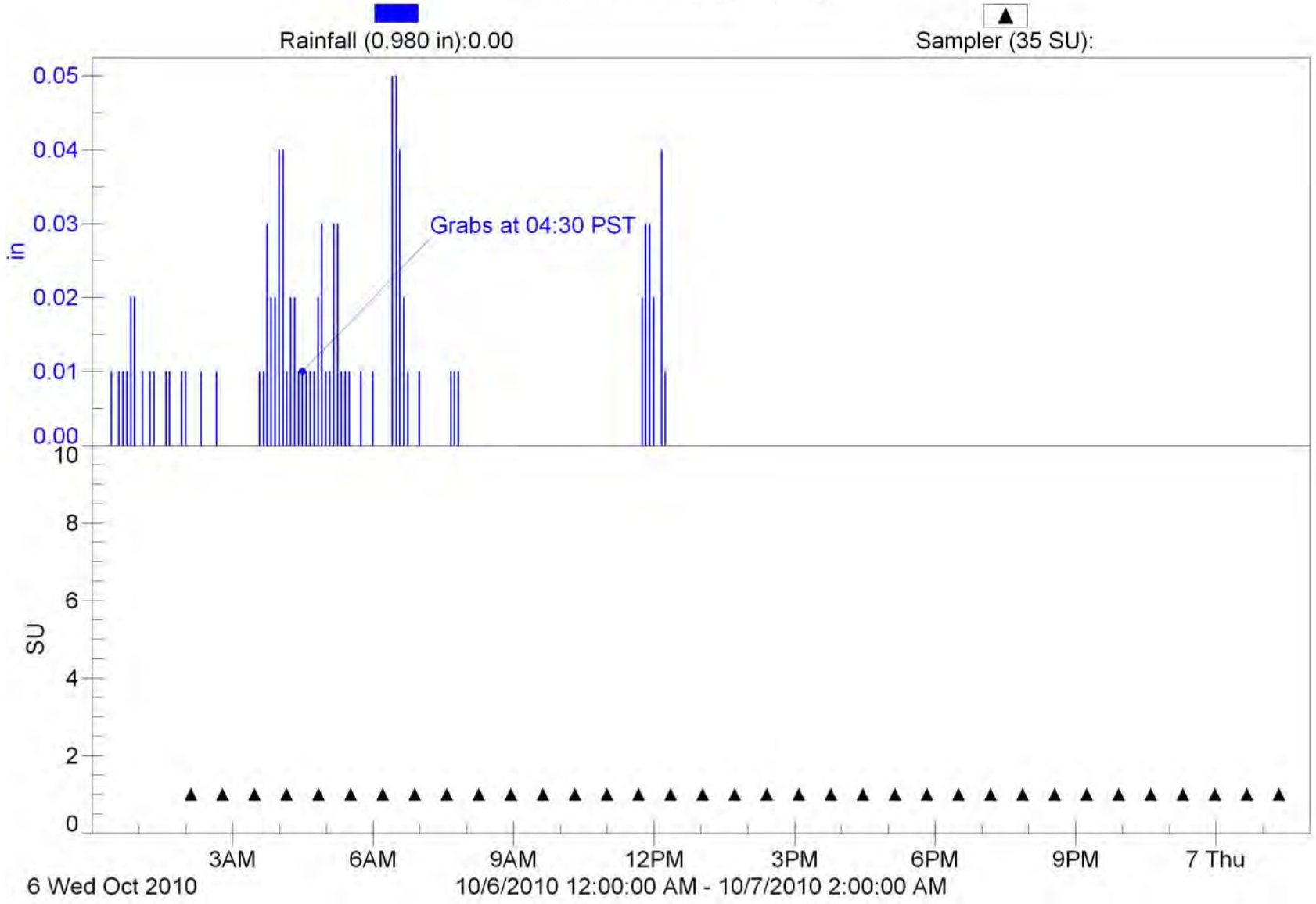
Land Use	Acres	% of Total Watershed
Agriculture	5.8	0.8%
Com_Indus. Mix	6.5	0.9%
Commercial	171.7	24.3%
Extraction	6.3	0.9%
Facility	14.6	2.1%
Industrial_1	10.8	1.5%
Industrial_3	23.0	3.2%
No Info Given	5.4	0.8%
Res.1	8.7	1.2%
Res.2	109.1	15.4%
Res.3	234.8	33.2%
Res.4	4.8	0.7%
Schools	18.4	2.6%
Transportation	40.7	5.8%
Under Construction	26.6	3.8%
Utilities	3.5	0.5%
Vacant Undifferentiated	16.3	2.3%
Totals	**707.1**	**100.0%**

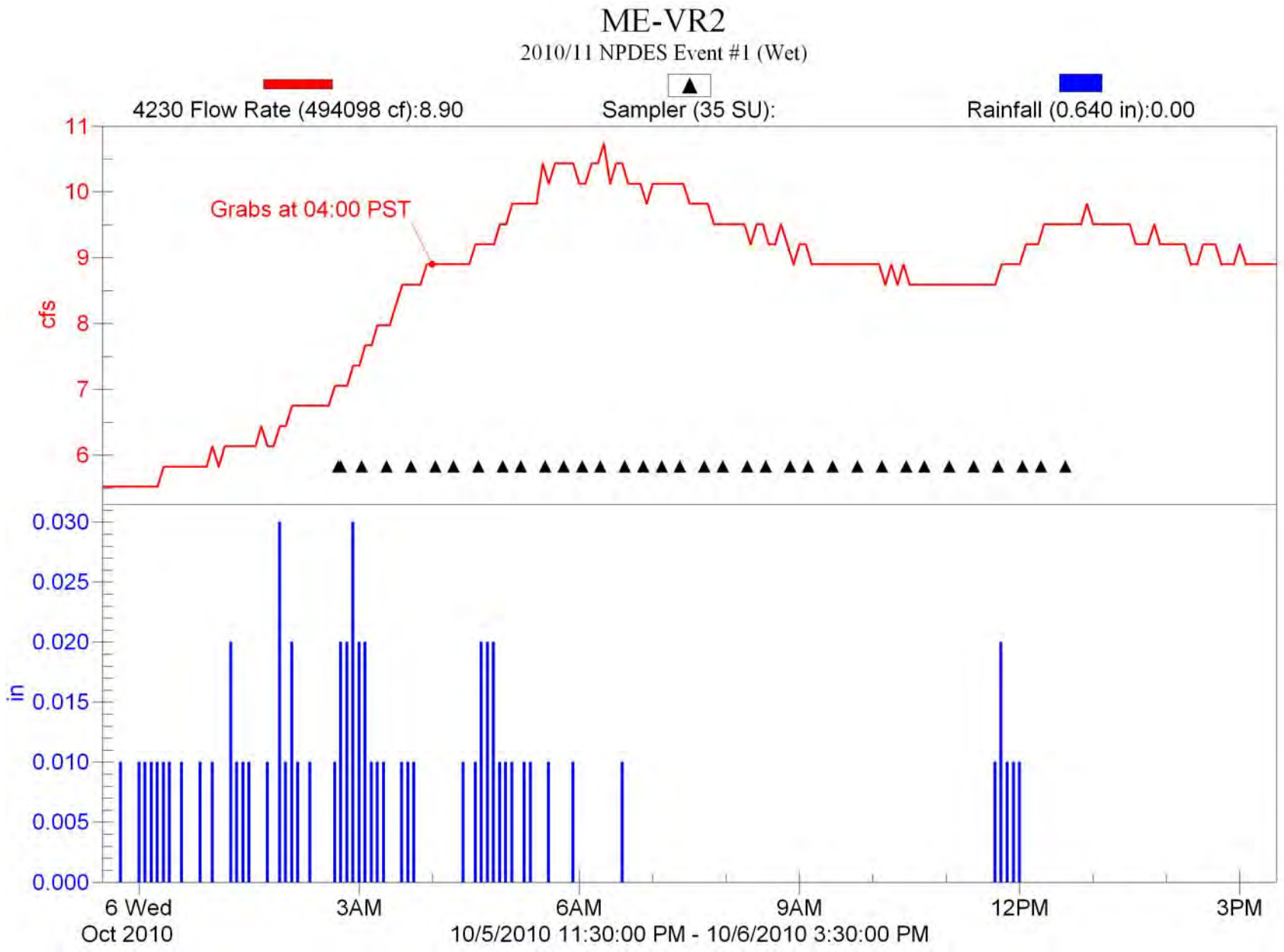
Appendix B. Event Hydrographs

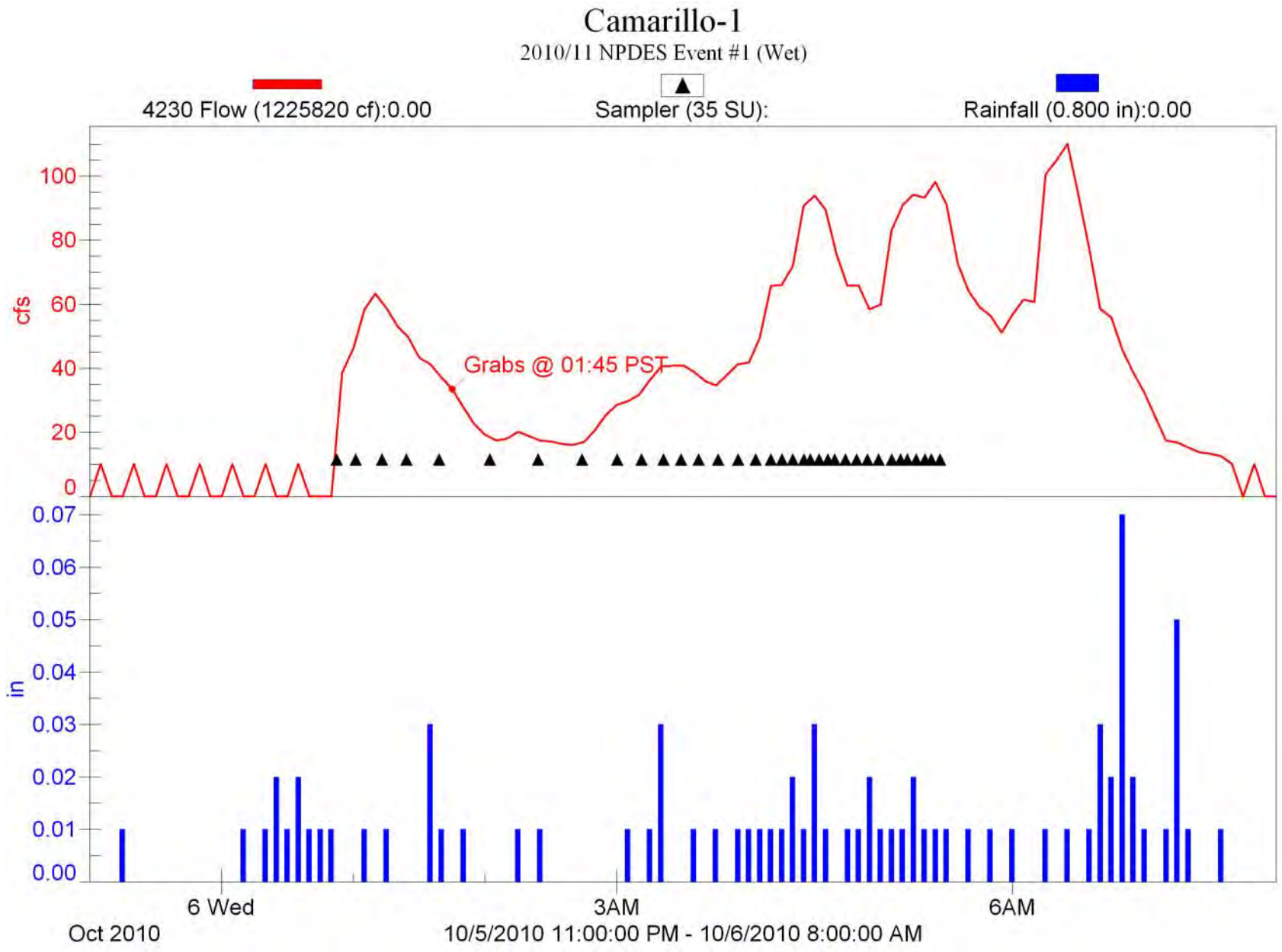

ME-CC
2010/11 NPDES Event #1 (Wet)
4230 Flow Rate (16084900 cf):5.68
Sampler (36 SU):
Rainfall (1.080 in):0.00
cfs
600
500
400
300
200
100
0
Grabs at 03:30 PST
in
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
6 Wed
3AM
6AM
9AM
12PM
3PM
6PM
9PM
7 Thu
3AM
6AM
Oct 2010
10/5/2010 10:00:00 PM - 10/7/2010 7:00:00 AM

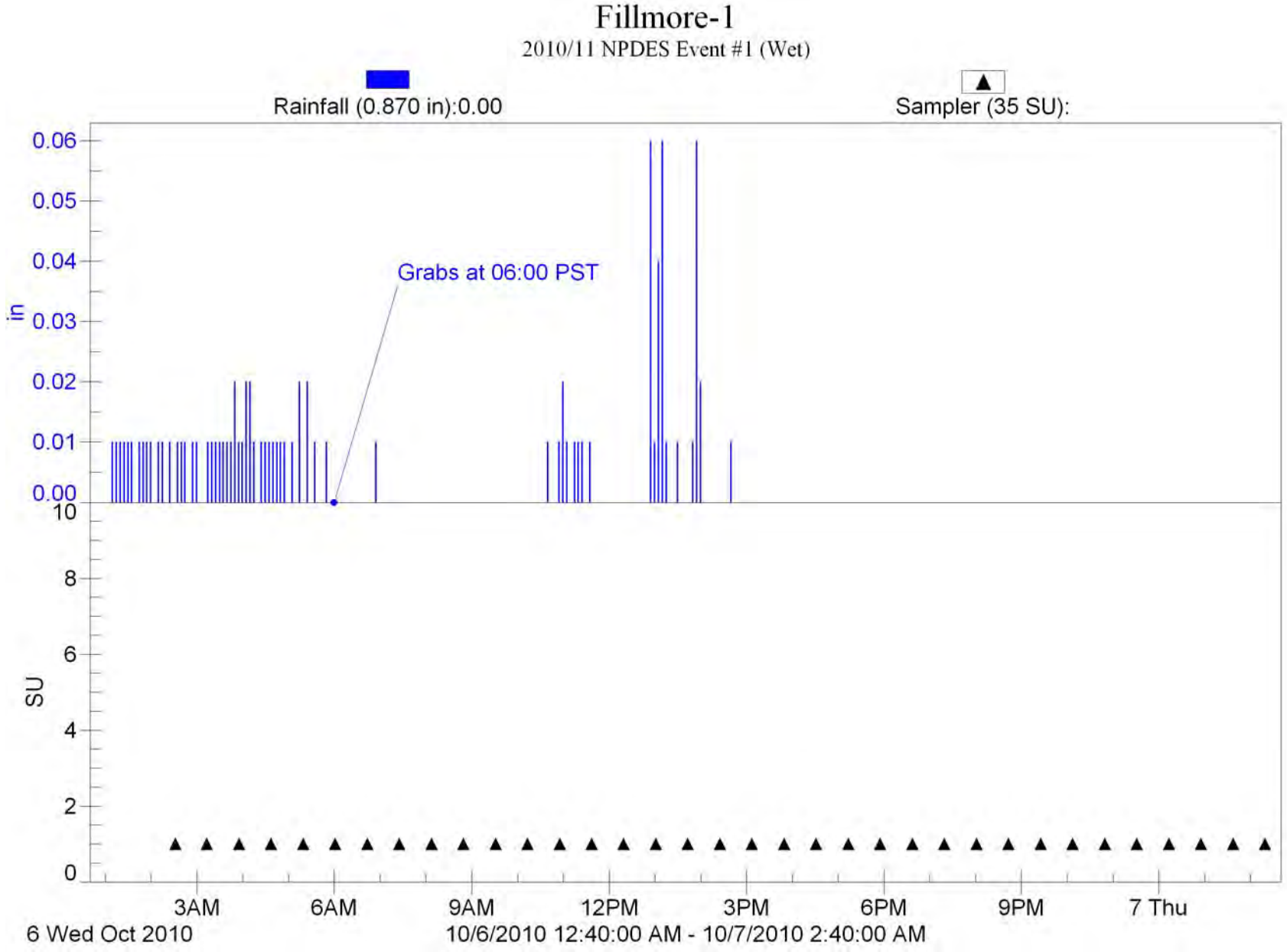
ME-SCR

2010/11 NPDES Event #1 (Wet)



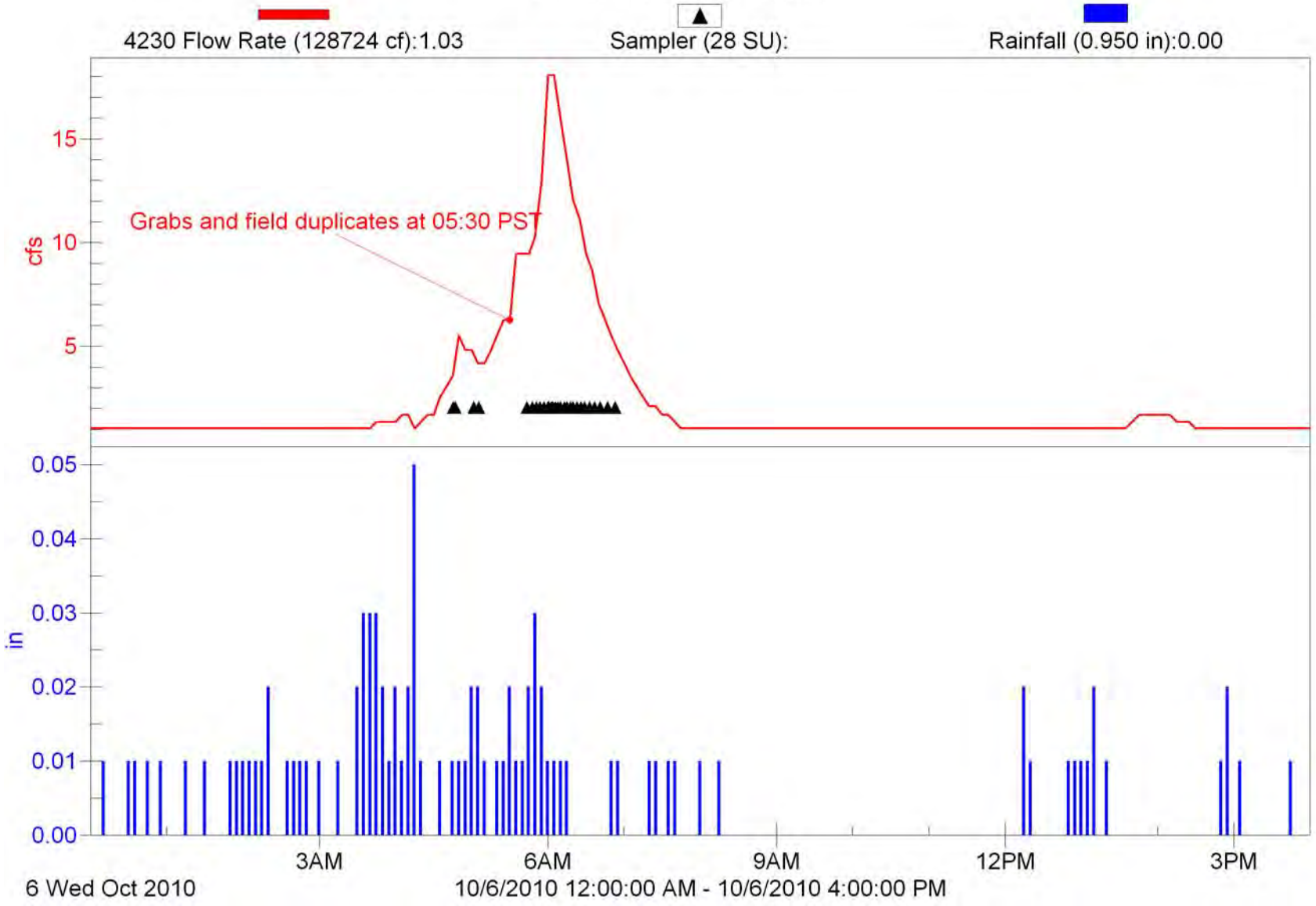

ME-VR2
2010/11 NPDES Event #1 (Wet)
4230 Flow Rate (494098 cf):8.90
Sampler (35 SU):
Rainfall (0.640 in):0.00
Grabs at 04:00 PST
cfs
11
10
9
8
7
6
in
0.030
0.025
0.020
0.015
0.010
0.005
0.000
6 Wed
Oct 2010
3AM
6AM
9AM
12PM
3PM
10/5/2010 11:30:00 PM - 10/6/2010 3:30:00 PM

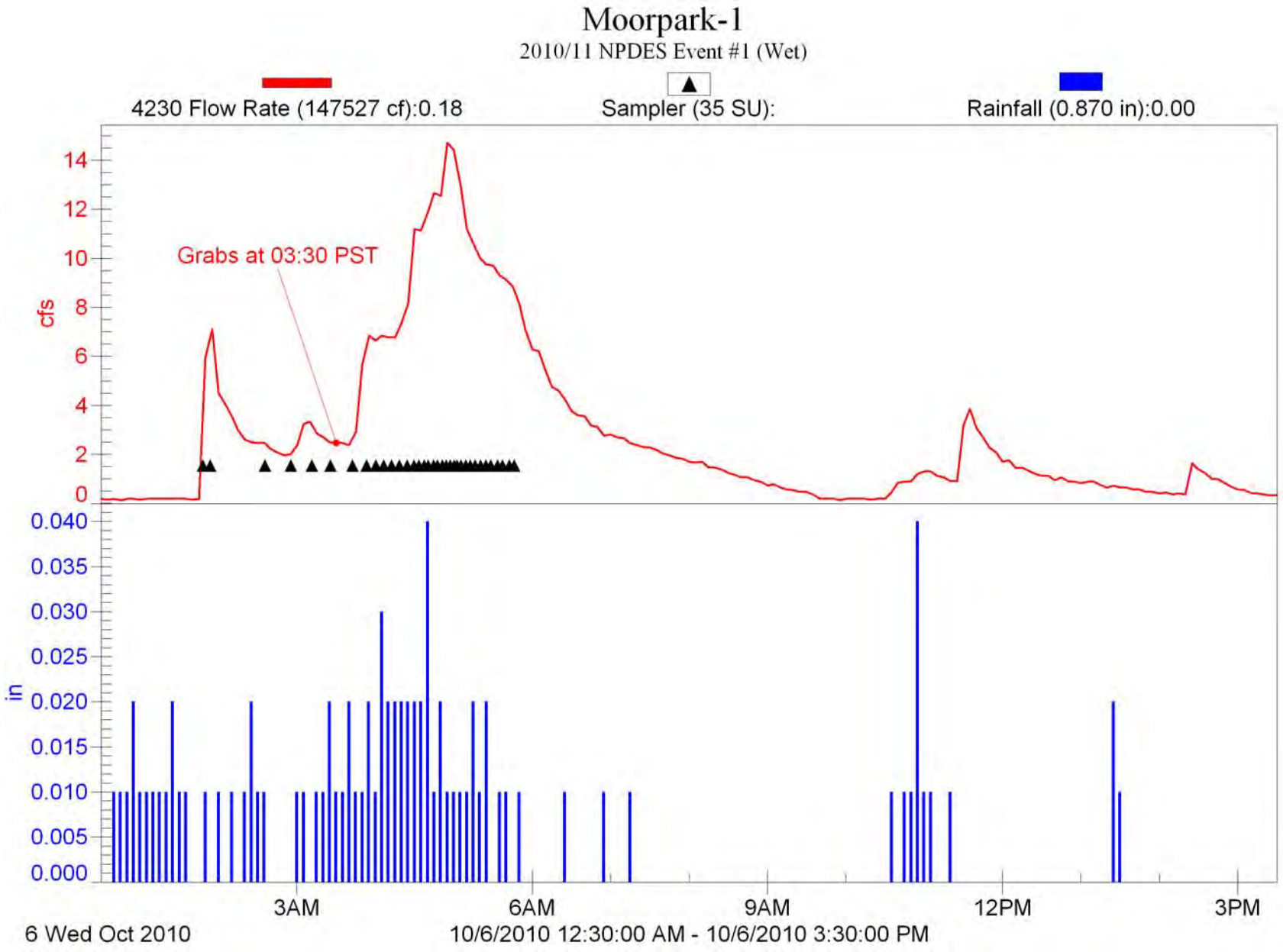

Camarillo-1
2010/11 NPDES Event #1 (Wet)
4230 Flow (1225820 cf):0.00
Sampler (35 SU):
Rainfall (0.800 in):0.00
cfs
100
80
60
40
20
0
Grabs @ 01:45 PST
in
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
6 Wed
Oct 2010
3AM
6AM
10/5/2010 11:00:00 PM - 10/6/2010 8:00:00 AM

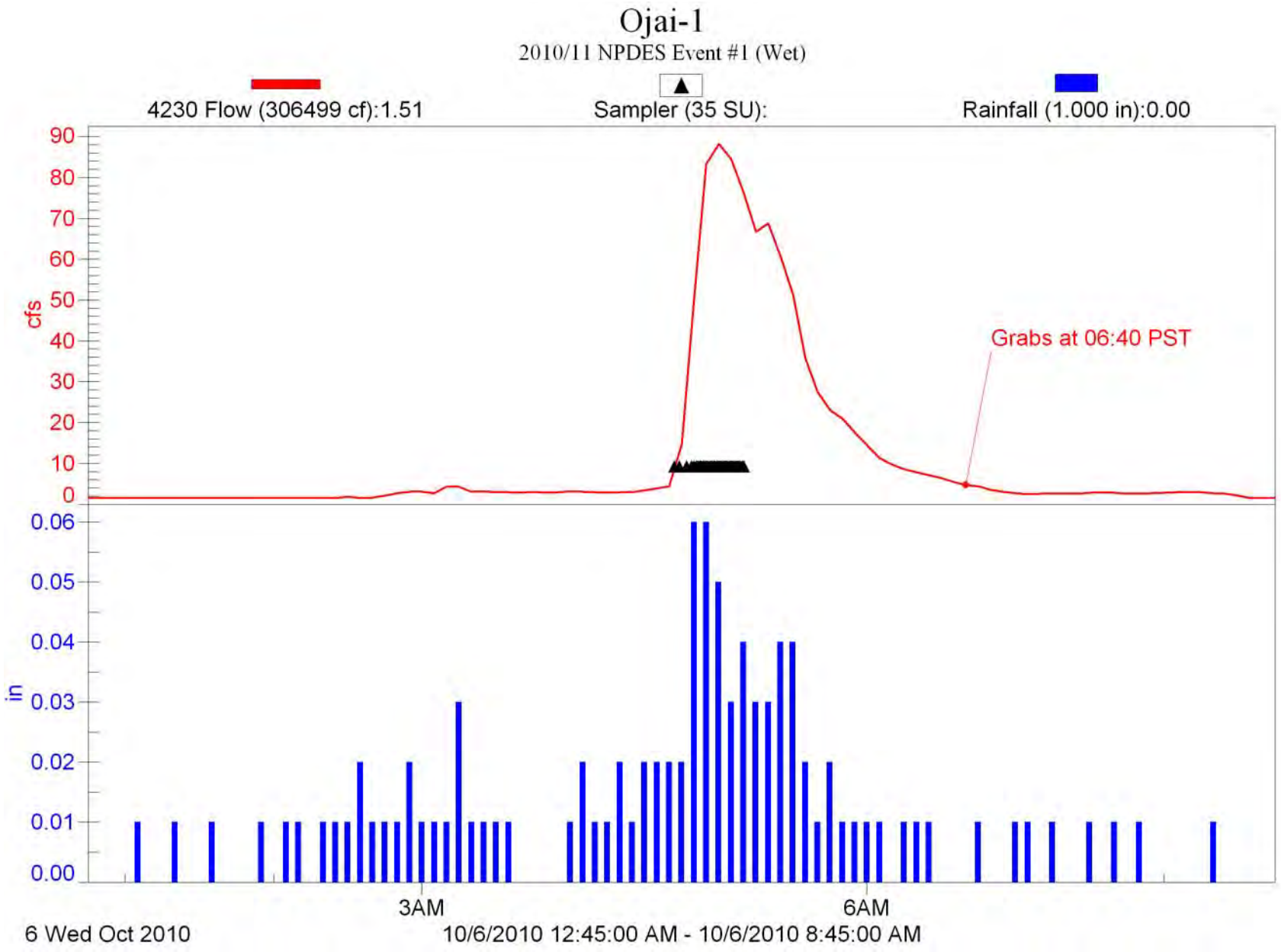

Fillmore-1
2010/11 NPDES Event #1 (Wet)
Rainfall (0.870 in):0.00
Sampler (35 SU):
0.06
0.05
0.04
0.03
0.02
0.01
0.00
in
Grabs at 06:00 PST
10
8
6
4
2
0
SU
3AM
6AM
9AM
12PM
3PM
6PM
9PM
7 Thu
6 Wed Oct 2010
10/6/2010 12:40:00 AM - 10/7/2010 2:40:00 AM

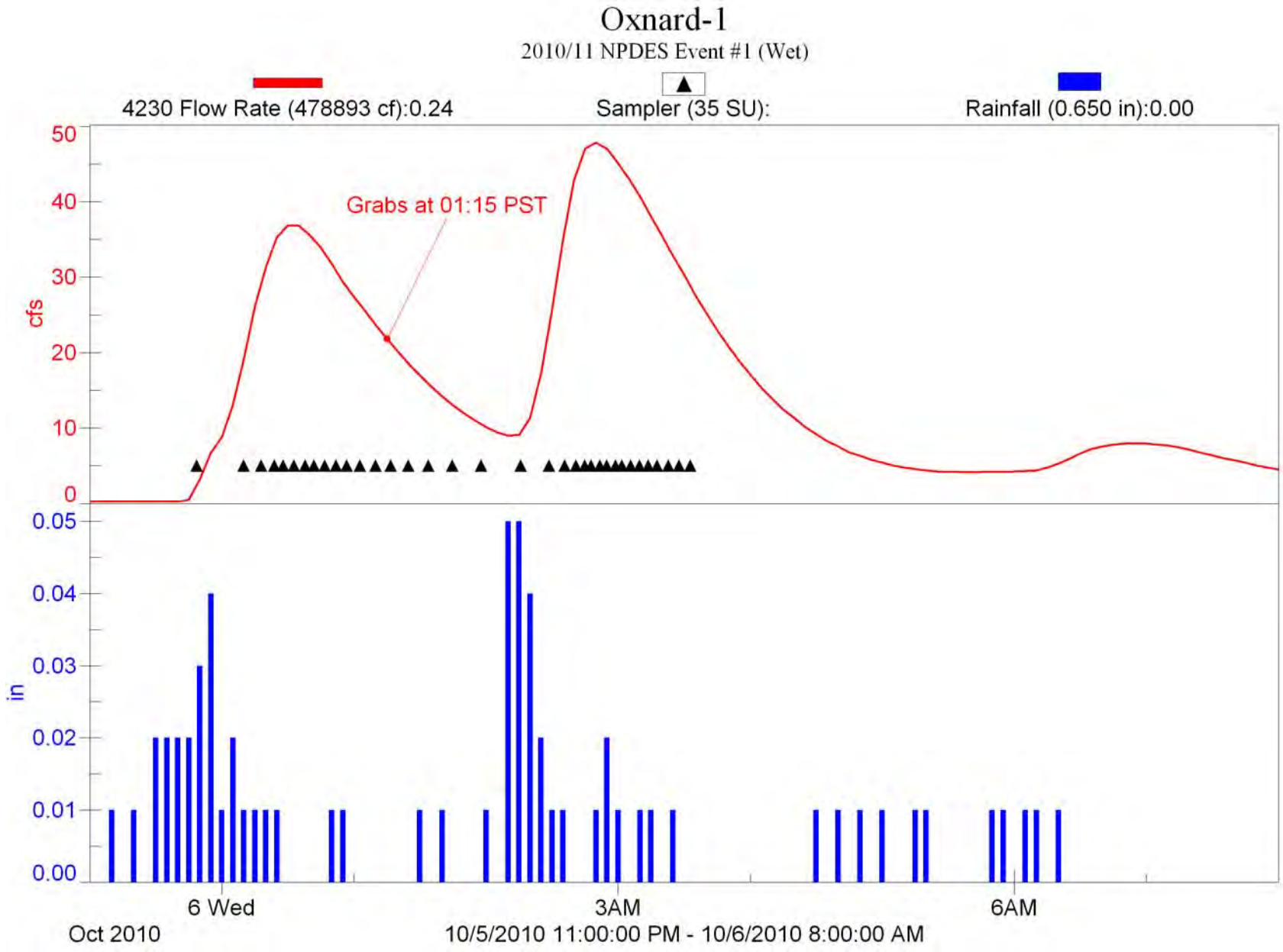
Meiners Oaks-1

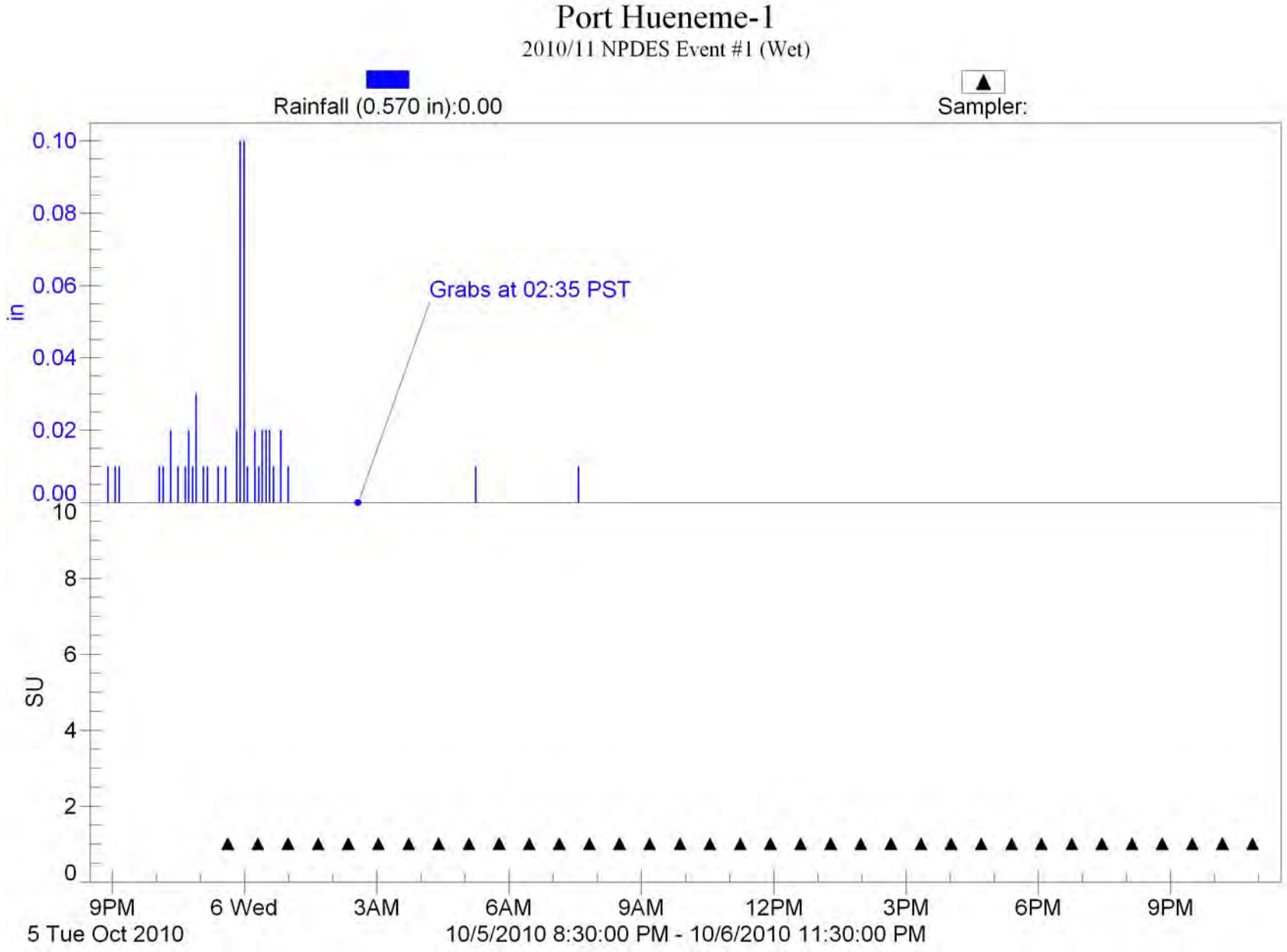
2010/11 NPDES Event #1 (Wet)

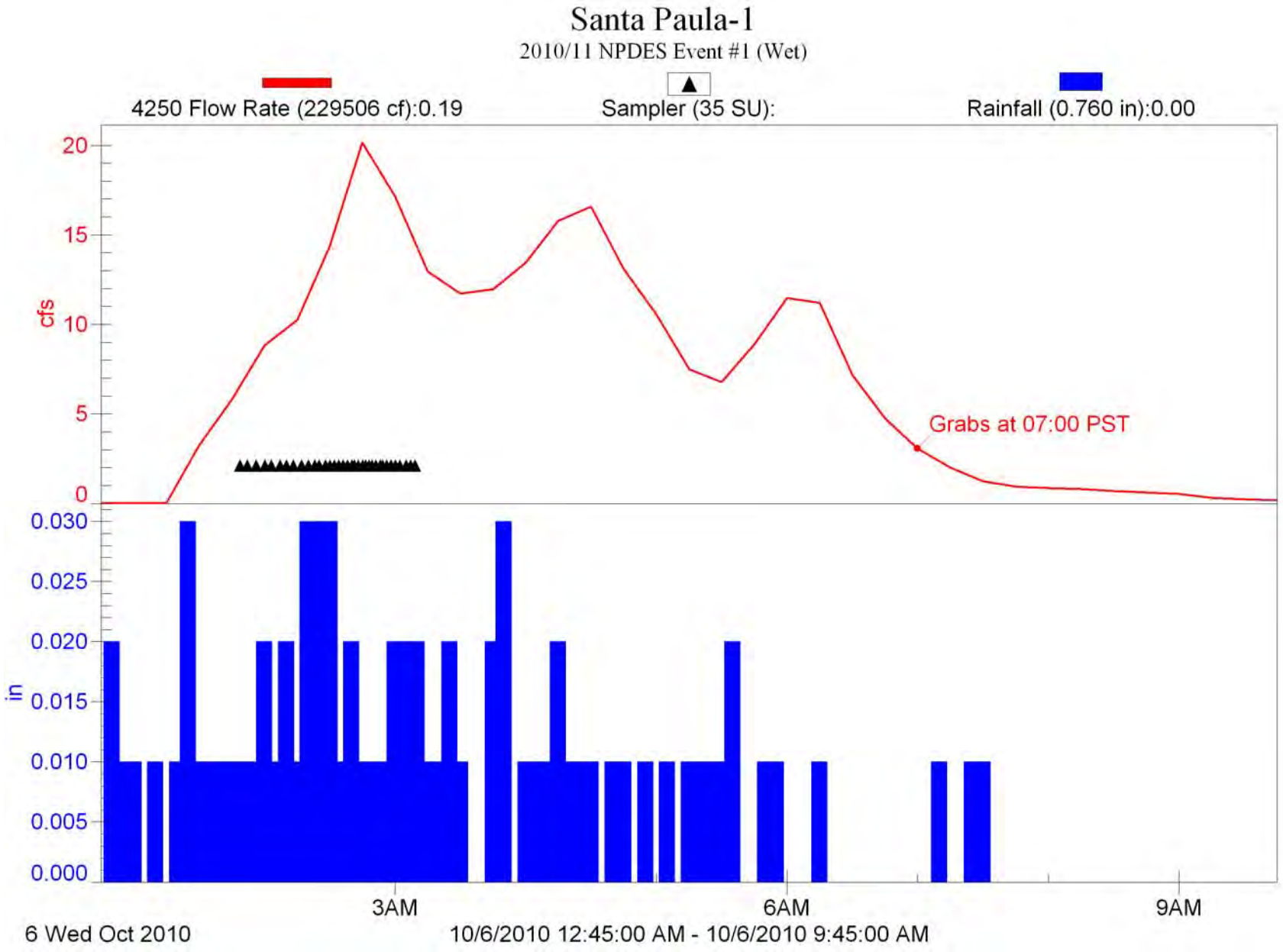


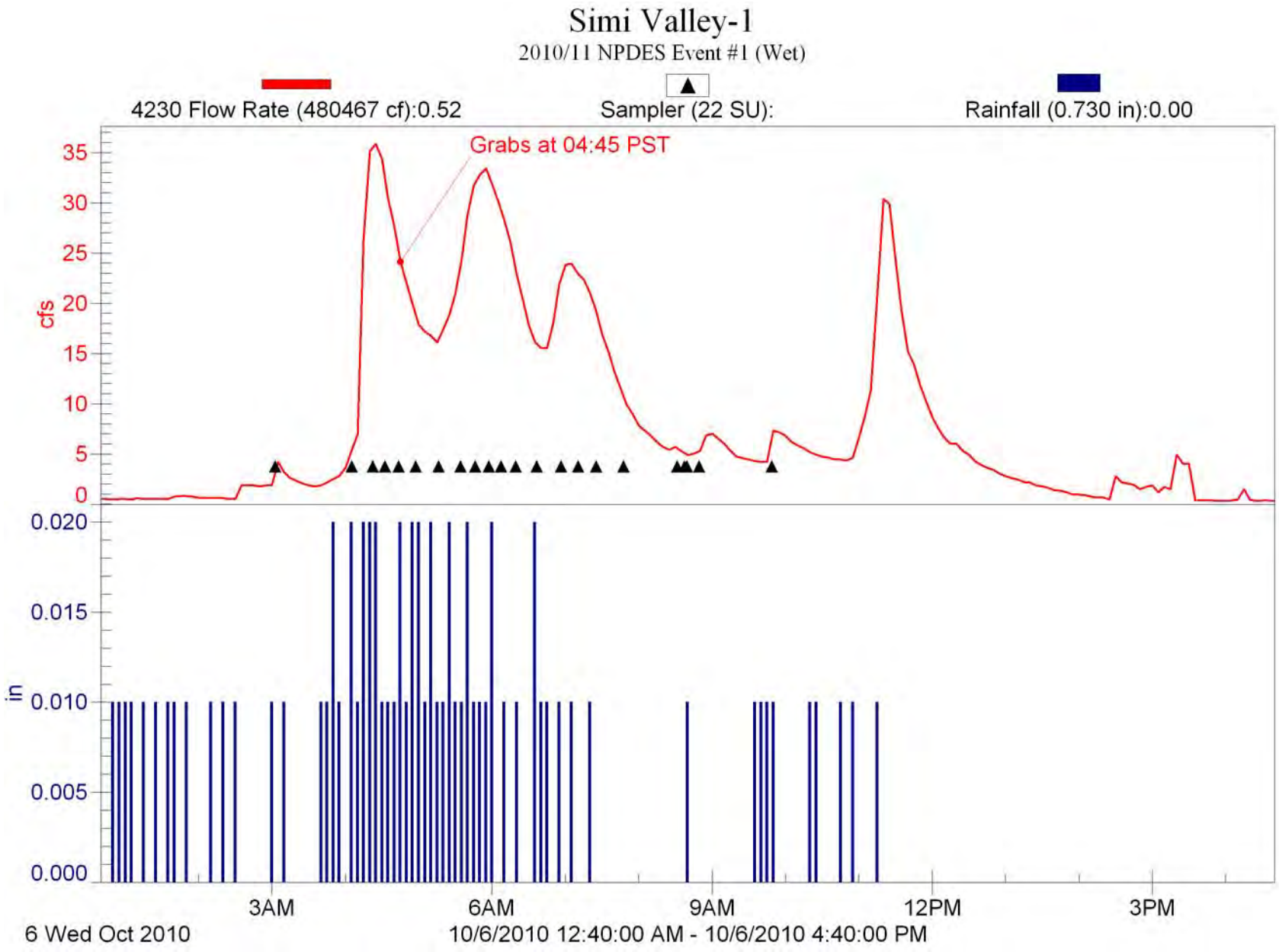

Moorpark-1
2010/11 NPDES Event #1 (Wet)
4230 Flow Rate (147527 cf):0.18
Sampler (35 SU):
Rainfall (0.870 in):0.00
Grabs at 03:30 PST
cfs
14
12
10
8
6
4
2
0
in
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
3AM
6AM
9AM
12PM
3PM
6 Wed Oct 2010
10/6/2010 12:30:00 AM - 10/6/2010 3:30:00 PM

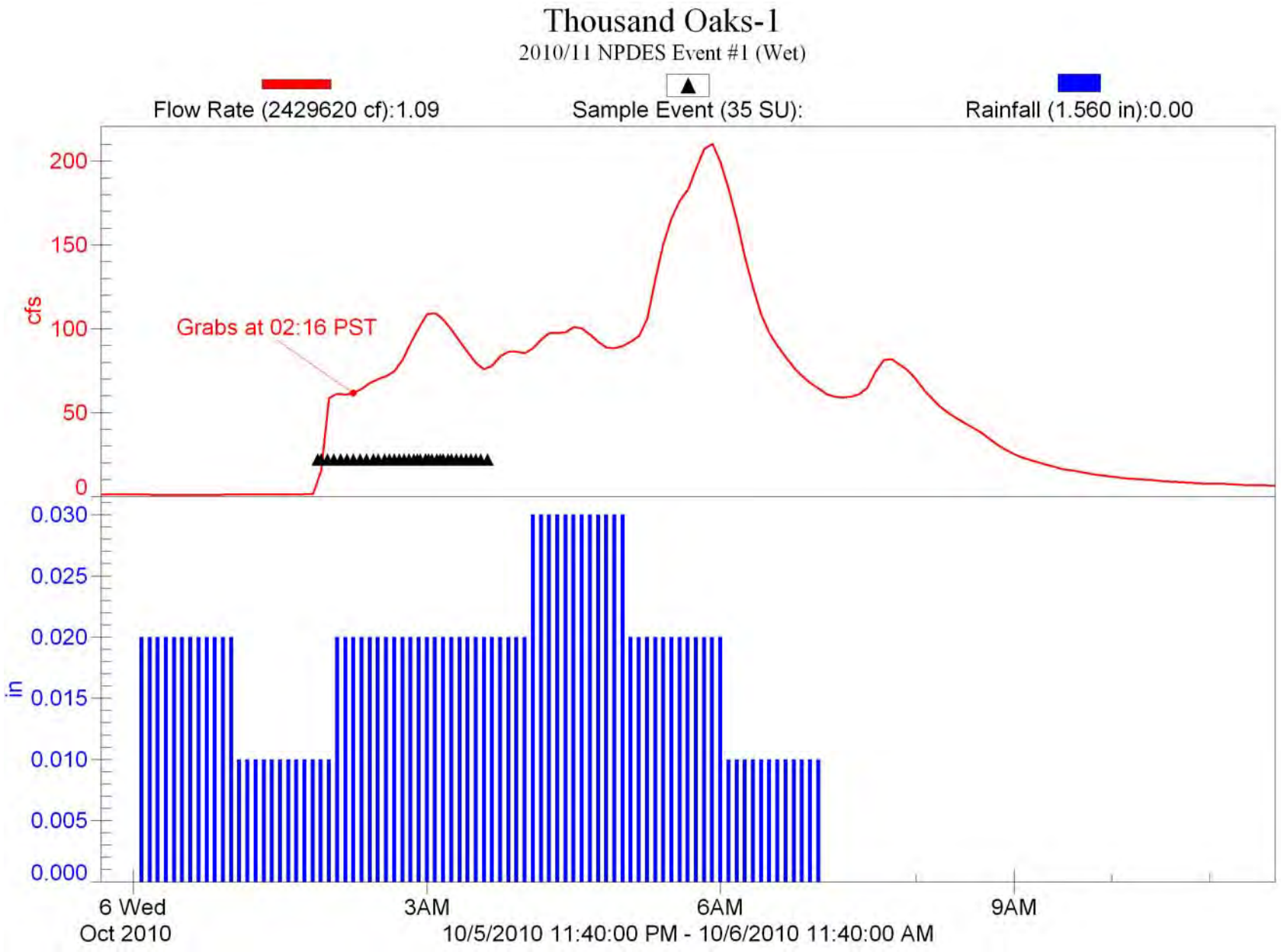

Ojai-1
2010/11 NPDES Event #1 (Wet)
4230 Flow (306499 cf):1.51
Sampler (35 SU):
Rainfall (1.000 in):0.00
cfs
90
80
70
60
50
40
30
20
10
0
Grabs at 06:40 PST
in
0.06
0.05
0.04
0.03
0.02
0.01
0.00
3AM
6AM
6 Wed Oct 2010
10/6/2010 12:45:00 AM - 10/6/2010 8:45:00 AM

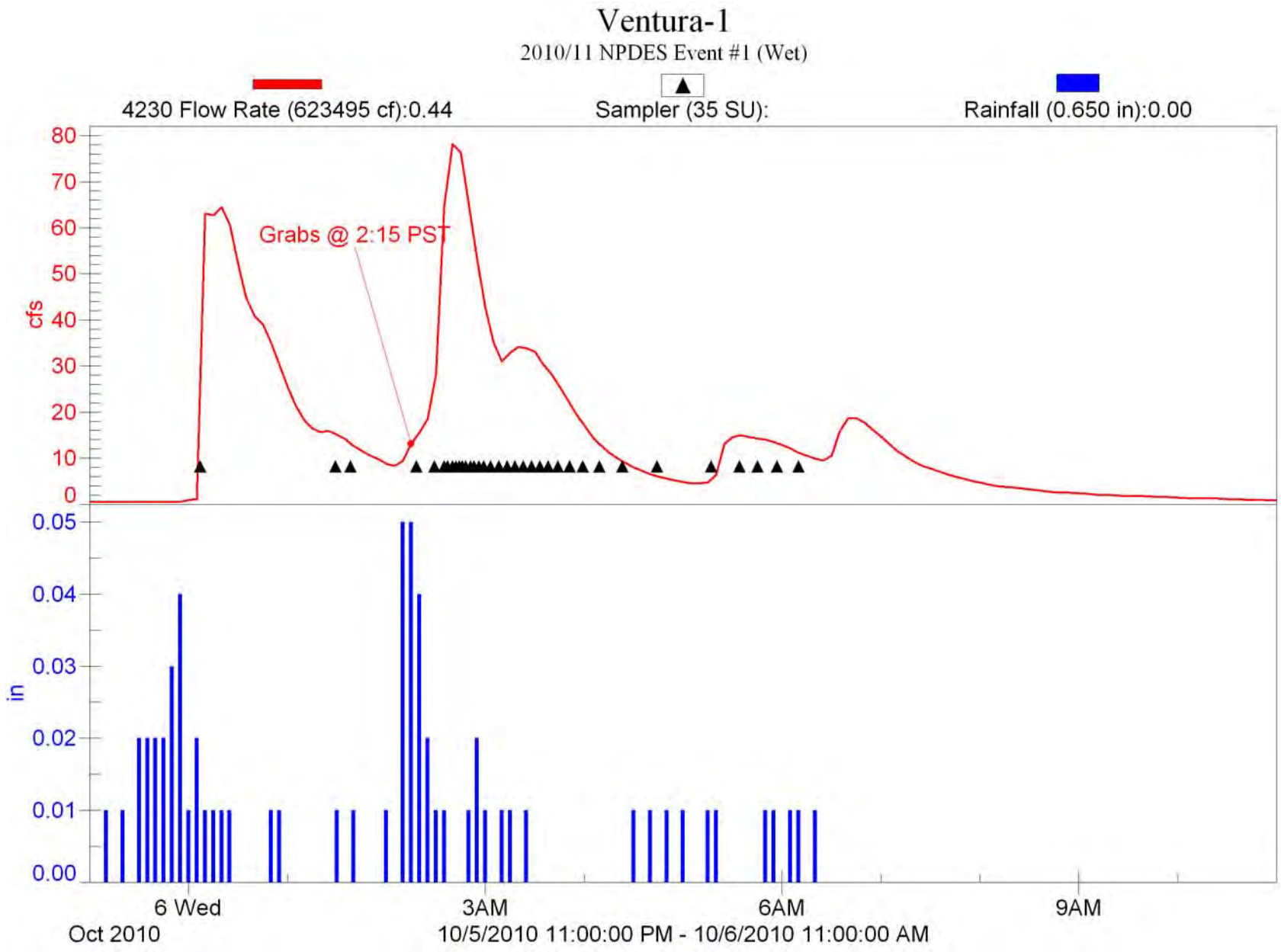

Oxnard-1
2010/11 NPDES Event #1 (Wet)
4230 Flow Rate (478893 cf):0.24
Sampler (35 SU):
Rainfall (0.650 in):0.00
Grabs at 01:15 PST
cfs
50
40
30
20
10
0
in
0.05
0.04
0.03
0.02
0.01
0.00
6 Wed
Oct 2010
3AM
6AM
10/5/2010 11:00:00 PM - 10/6/2010 8:00:00 AM

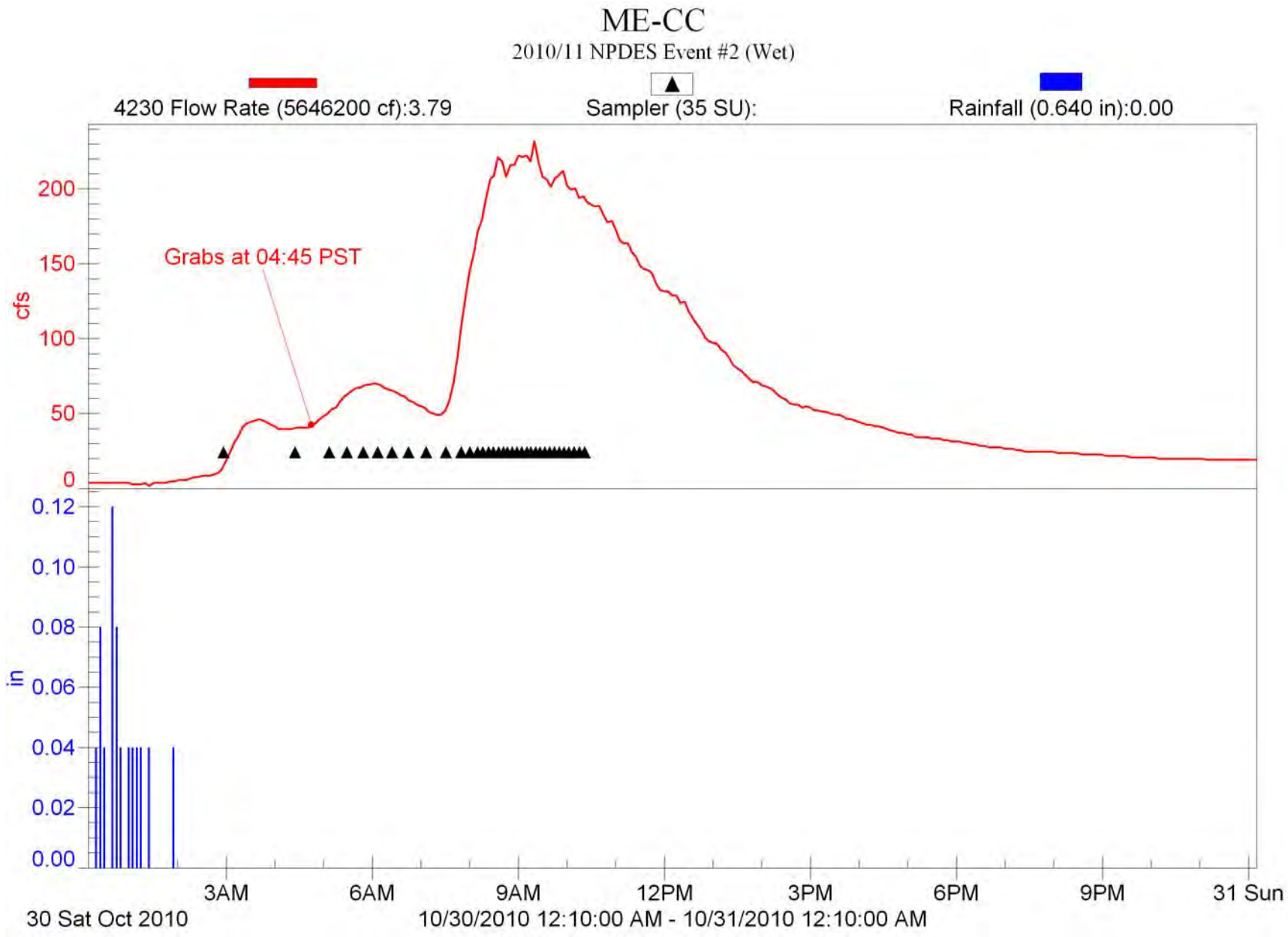

Port Hueneme-1
2010/11 NPDES Event #1 (Wet)
Rainfall (0.570 in):0.00
Sampler:
0.10
0.08
0.06
0.04
0.02
0.00
in
Grabs at 02:35 PST
10
8
6
4
2
0
SU
9PM
6 Wed
3AM
6AM
9AM
12PM
3PM
6PM
9PM
5 Tue Oct 2010
10/5/2010 8:30:00 PM - 10/6/2010 11:30:00 PM

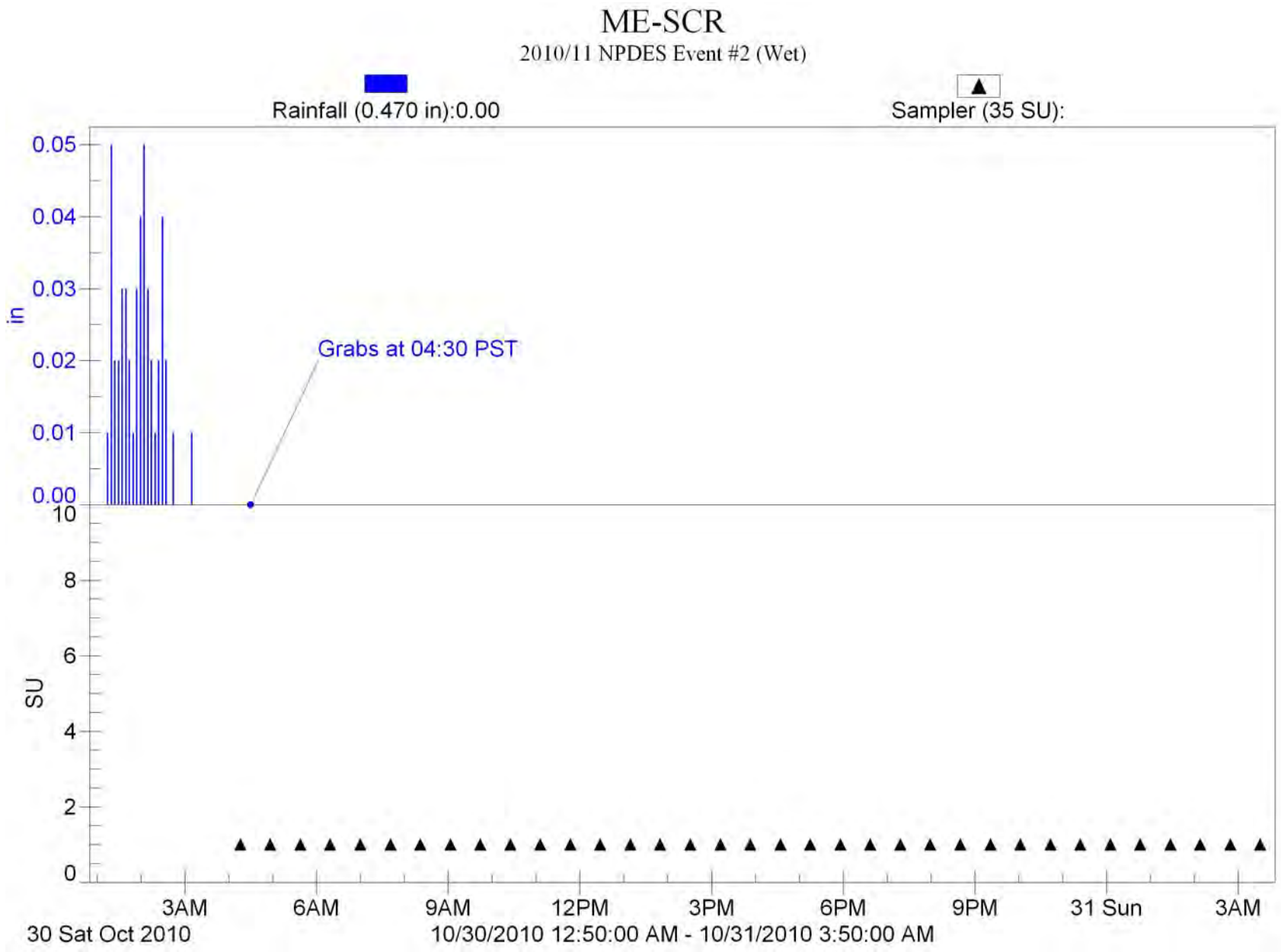

Santa Paula-1
2010/11 NPDES Event #1 (Wet)
4250 Flow Rate (229506 cf):0.19
Sampler (35 SU):
Rainfall (0.760 in):0.00
cfs
20
15
10
5
0
Grabs at 07:00 PST
in
0.030
0.025
0.020
0.015
0.010
0.005
0.000
3AM
6AM
9AM
6 Wed Oct 2010
10/6/2010 12:45:00 AM - 10/6/2010 9:45:00 AM

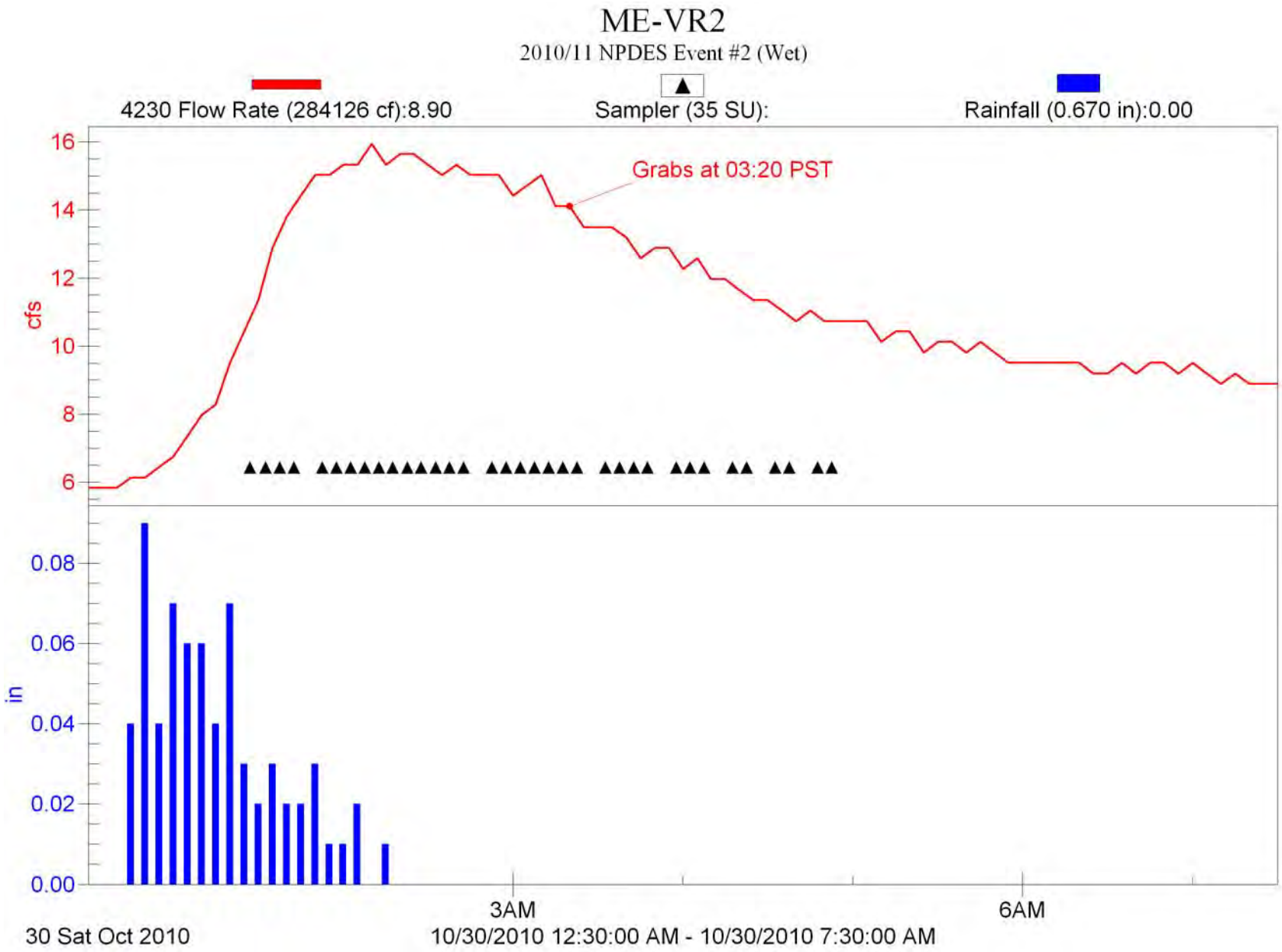

Simi Valley-1
2010/11 NPDES Event #1 (Wet)
4230 Flow Rate (480467 cf):0.52
Sampler (22 SU):
Rainfall (0.730 in):0.00
Grabs at 04:45 PST
cfs
35
30
25
20
15
10
5
0
in
0.020
0.015
0.010
0.005
0.000
3AM
6AM
9AM
12PM
3PM
6 Wed Oct 2010
10/6/2010 12:40:00 AM - 10/6/2010 4:40:00 PM

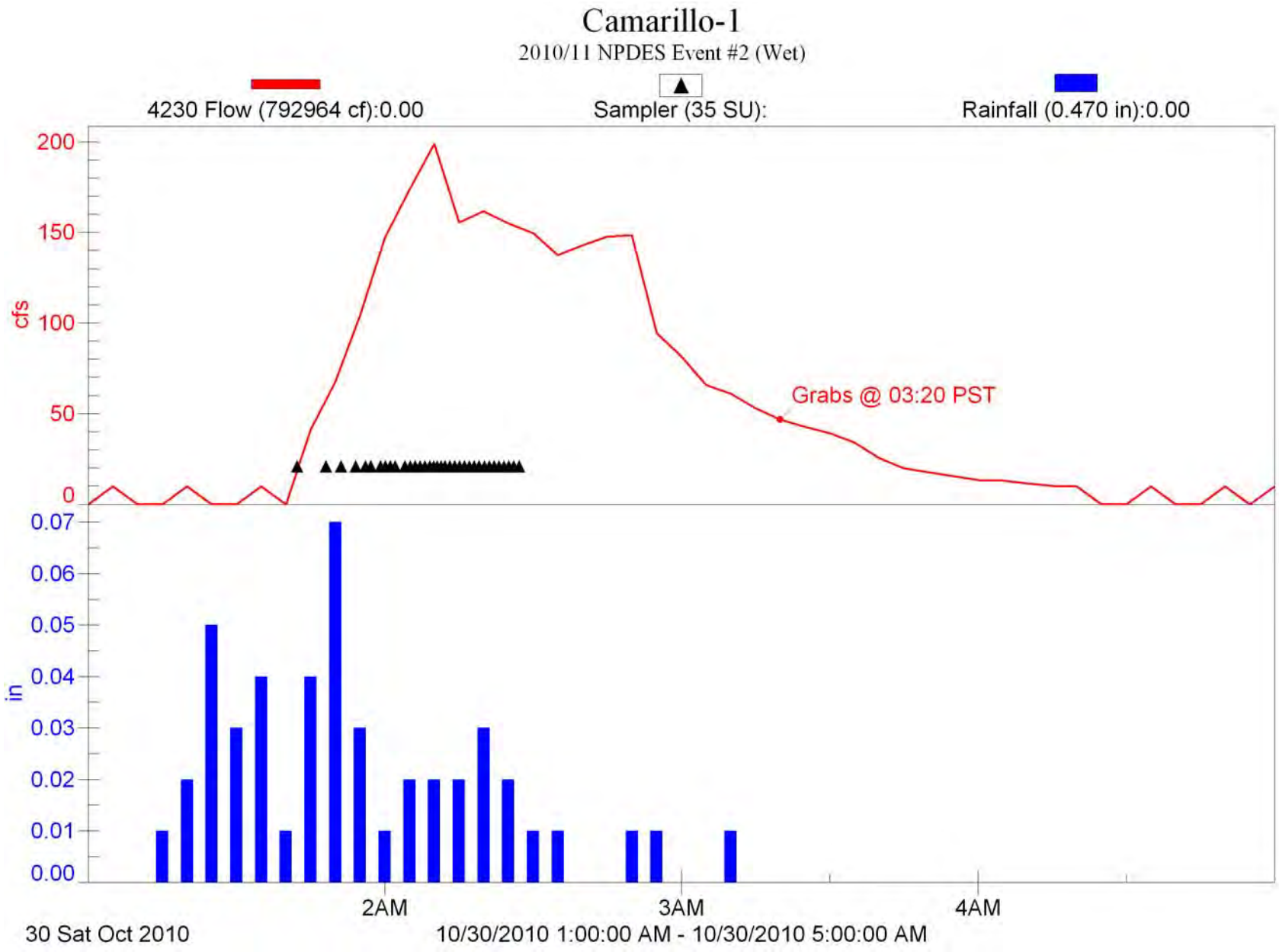

Thousand Oaks-1
2010/11 NPDES Event #1 (Wet)
Flow Rate (2429620 cf):1.09
Sample Event (35 SU):
Rainfall (1.560 in):0.00
cfs
200
150
100
50
0
Grabs at 02:16 PST
in
0.030
0.025
0.020
0.015
0.010
0.005
0.000
6 Wed
Oct 2010
3AM
6AM
9AM
10/5/2010 11:40:00 PM - 10/6/2010 11:40:00 AM

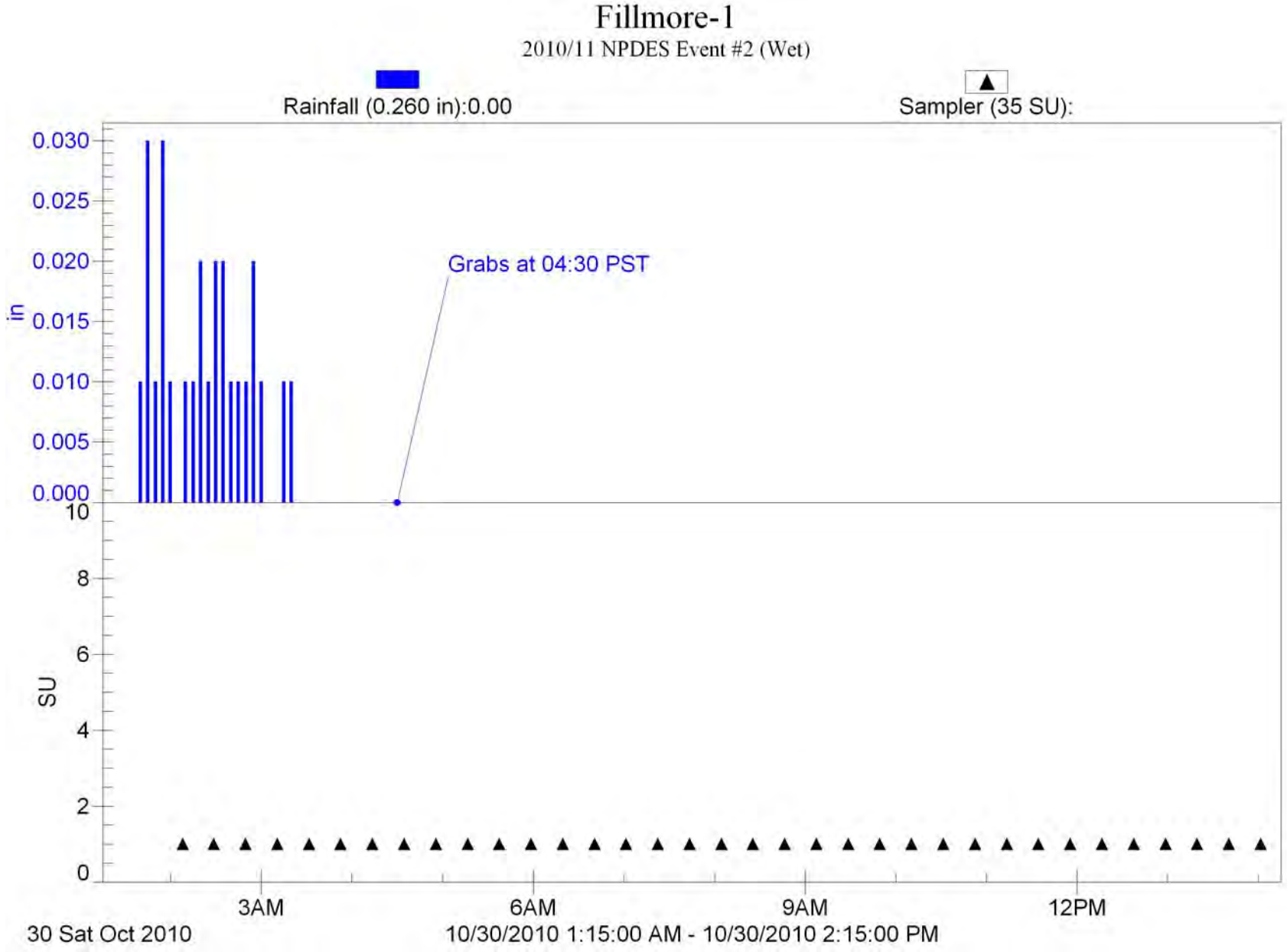

Ventura-1
2010/11 NPDES Event #1 (Wet)
4230 Flow Rate (623495 cf):0.44
Sampler (35 SU):
Rainfall (0.650 in):0.00
Grabs @ 2:15 PST
cfs
80
70
60
50
40
30
20
10
0
in
0.05
0.04
0.03
0.02
0.01
0.00
6 Wed
Oct 2010
3AM
6AM
9AM
10/5/2010 11:00:00 PM - 10/6/2010 11:00:00 AM

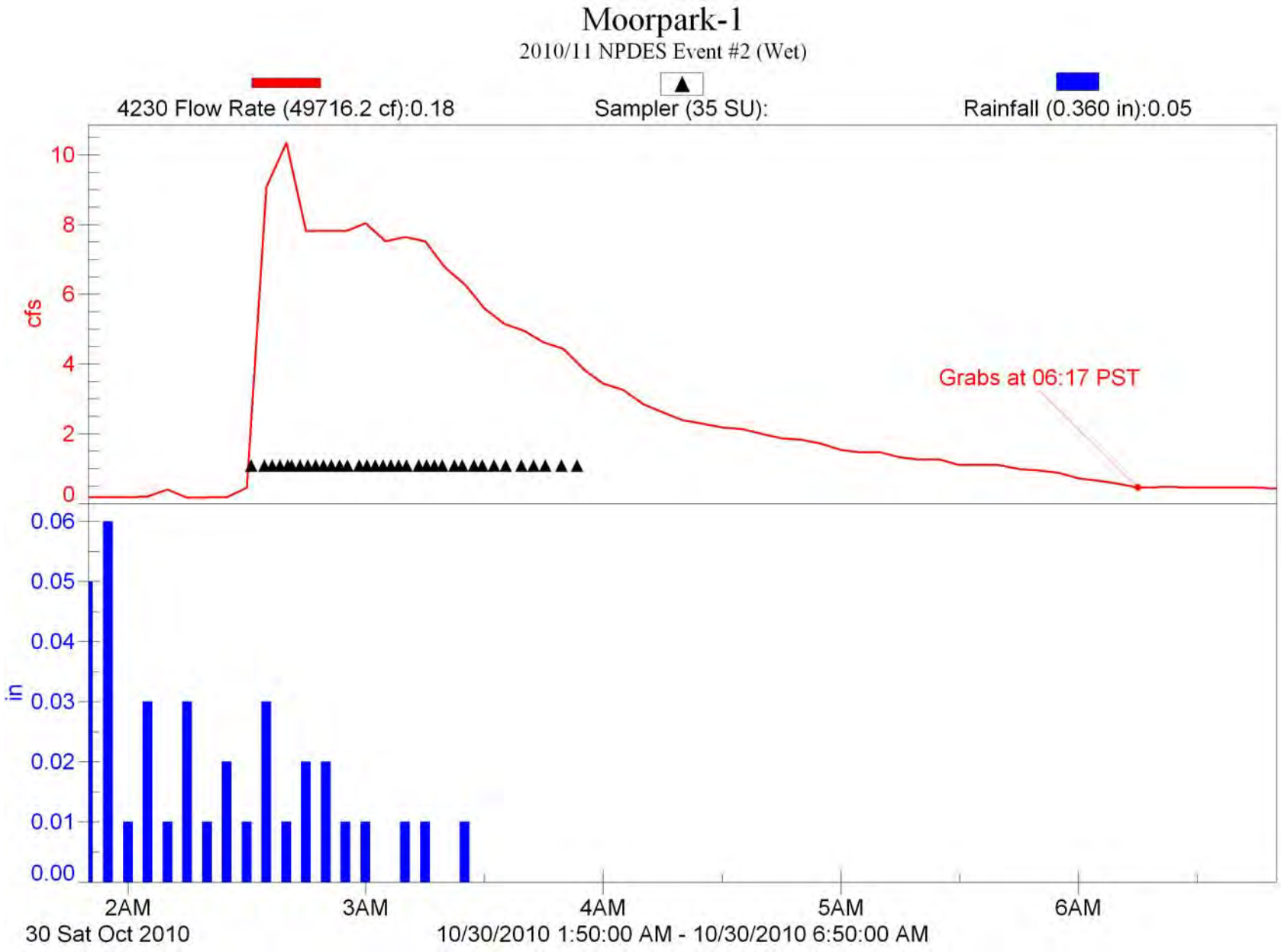

ME-CC
2010/11 NPDES Event #2 (Wet)
4230 Flow Rate (5646200 cf):3.79
Sampler (35 SU):
Rainfall (0.640 in):0.00
Grabs at 04:45 PST
cfs
200
150
100
50
0
in
0.12
0.10
0.08
0.06
0.04
0.02
0.00
3AM
6AM
9AM
12PM
3PM
6PM
9PM
31 Sun
30 Sat Oct 2010
10/30/2010 12:10:00 AM - 10/31/2010 12:10:00 AM

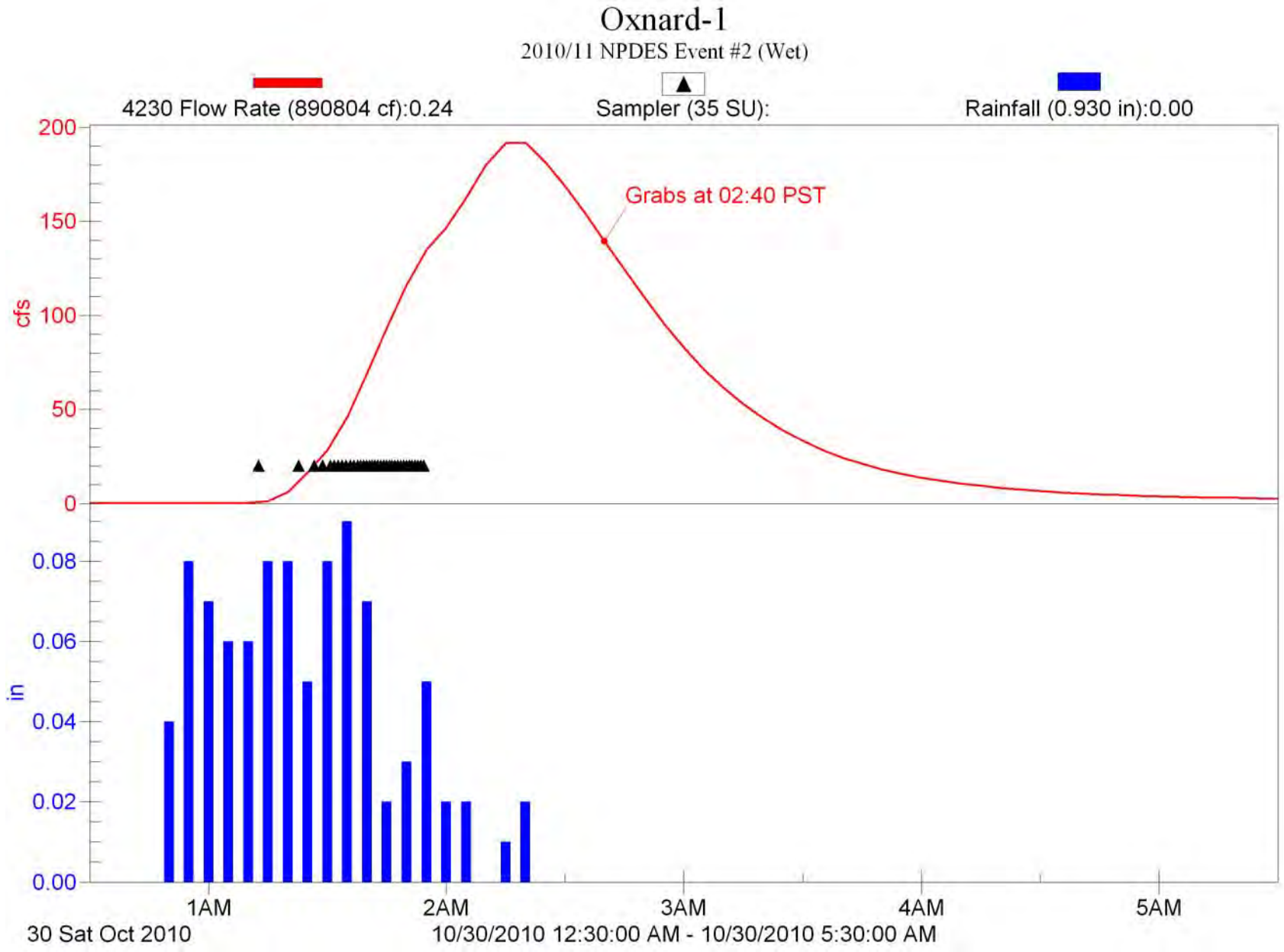

ME-SCR
2010/11 NPDES Event #2 (Wet)
Rainfall (0.470 in):0.00
Sampler (35 SU):
in
0.05
0.04
0.03
0.02
0.01
0.00
Grabs at 04:30 PST
SU
10
8
6
4
2
0
3AM
6AM
9AM
12PM
3PM
6PM
9PM
31 Sun
3AM
30 Sat Oct 2010
10/30/2010 12:50:00 AM - 10/31/2010 3:50:00 AM

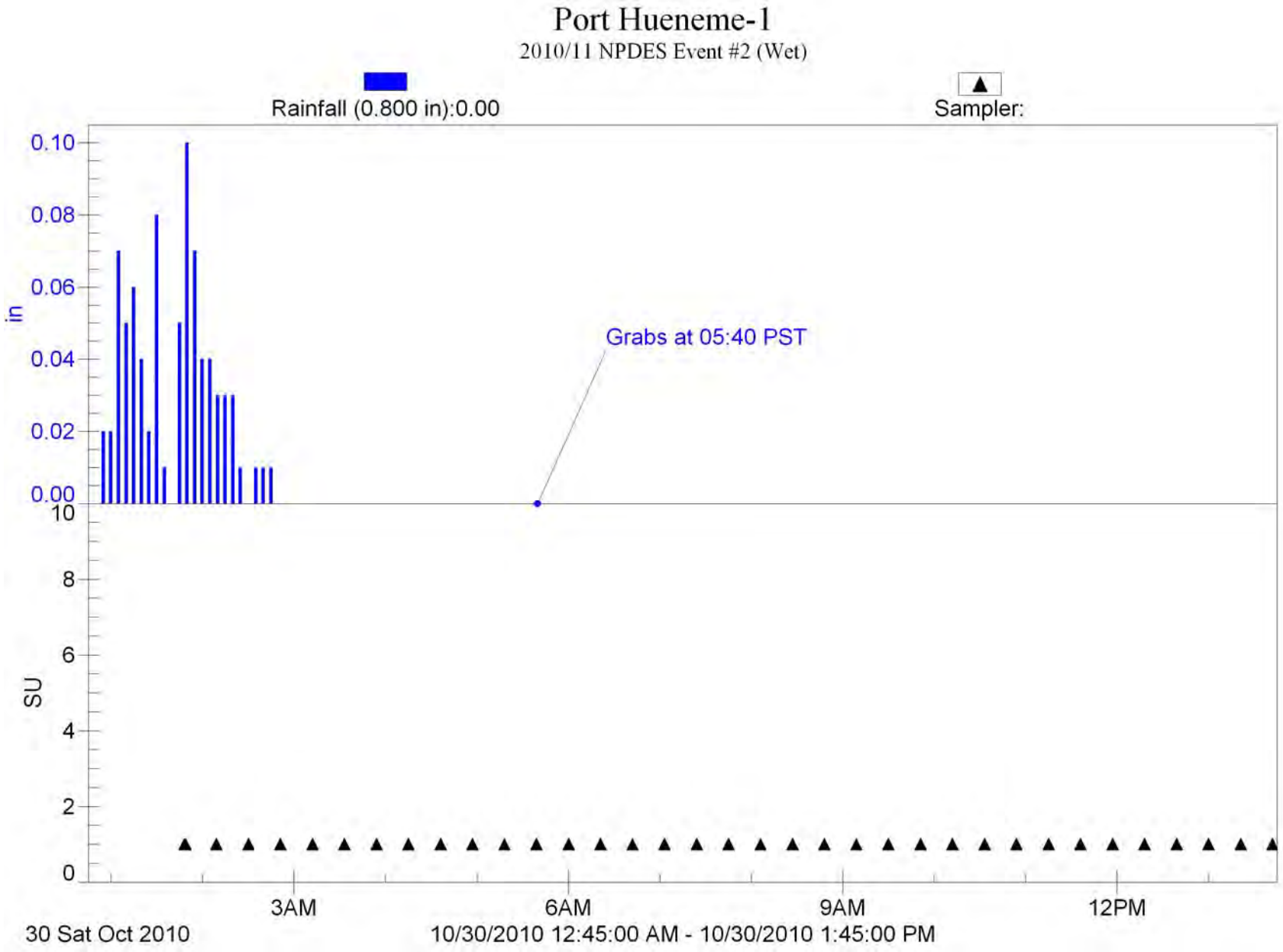

ME-VR2
2010/11 NPDES Event #2 (Wet)
4230 Flow Rate (284126 cf):8.90
Sampler (35 SU):
Rainfall (0.670 in):0.00
Grabs at 03:20 PST
cfs
16
14
12
10
8
6
in
0.08
0.06
0.04
0.02
0.00
3AM
6AM
30 Sat Oct 2010
10/30/2010 12:30:00 AM - 10/30/2010 7:30:00 AM

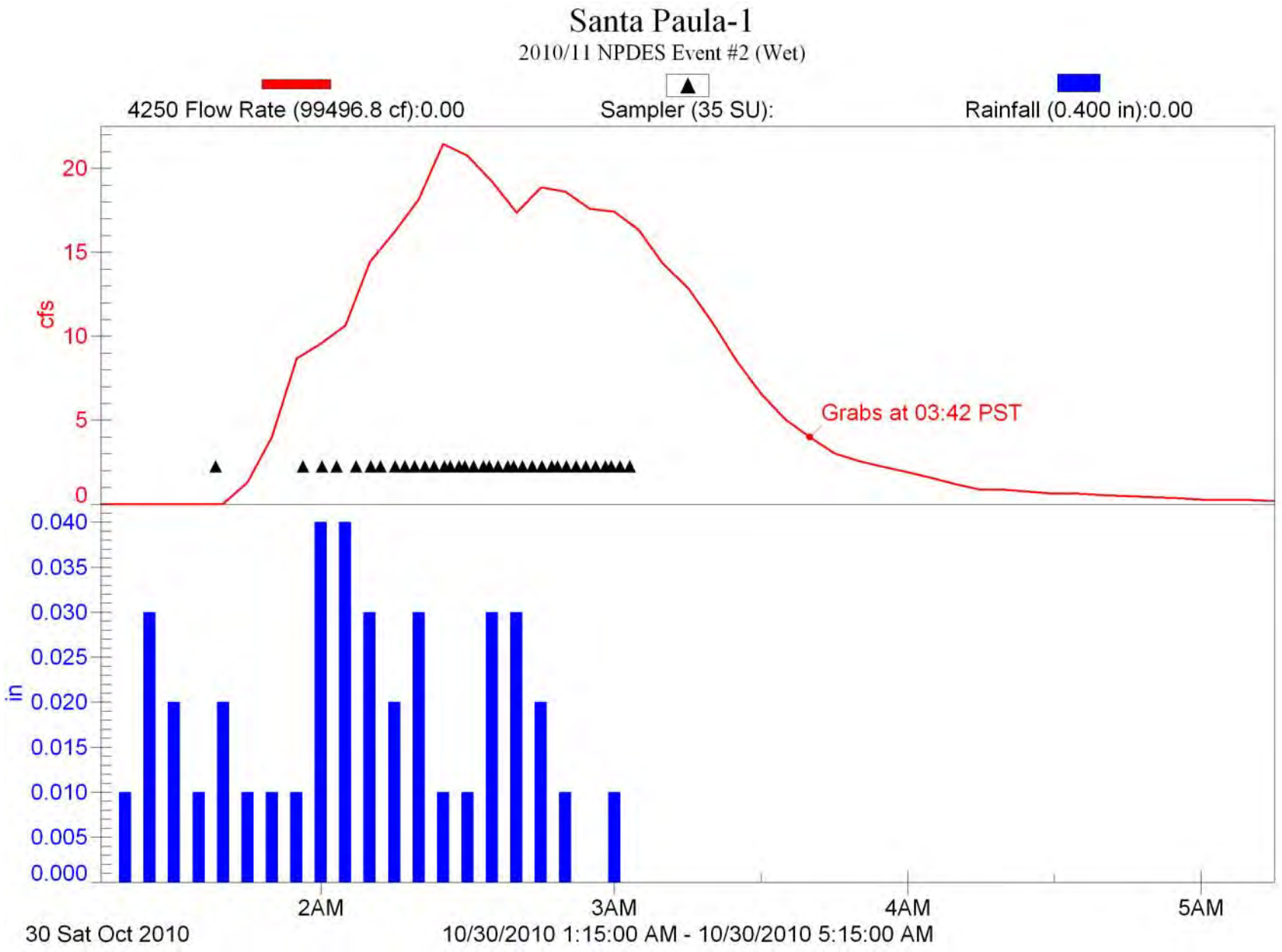

Camarillo-1
2010/11 NPDES Event #2 (Wet)
4230 Flow (792964 cf):0.00
Sampler (35 SU):
Rainfall (0.470 in):0.00
200
150
100
50
0
cfs
Grabs @ 03:20 PST
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
in
2AM
3AM
4AM
30 Sat Oct 2010
10/30/2010 1:00:00 AM - 10/30/2010 5:00:00 AM


Fillmore-1
2010/11 NPDES Event #2 (Wet)
Rainfall (0.260 in):0.00
Sampler (35 SU):
0.030
0.025
0.020
0.015
0.010
0.005
0.000
in
Grabs at 04:30 PST
10
8
6
4
2
0
SU
3AM
6AM
9AM
12PM
30 Sat Oct 2010
10/30/2010 1:15:00 AM - 10/30/2010 2:15:00 PM


Moorpark-1
2010/11 NPDES Event #2 (Wet)
4230 Flow Rate (49716.2 cf):0.18
Sampler (35 SU):
Rainfall (0.360 in):0.05
cfs
10
8
6
4
2
0
Grabs at 06:17 PST
in
0.06
0.05
0.04
0.03
0.02
0.01
0.00
2AM
3AM
4AM
5AM
6AM
30 Sat Oct 2010
10/30/2010 1:50:00 AM - 10/30/2010 6:50:00 AM

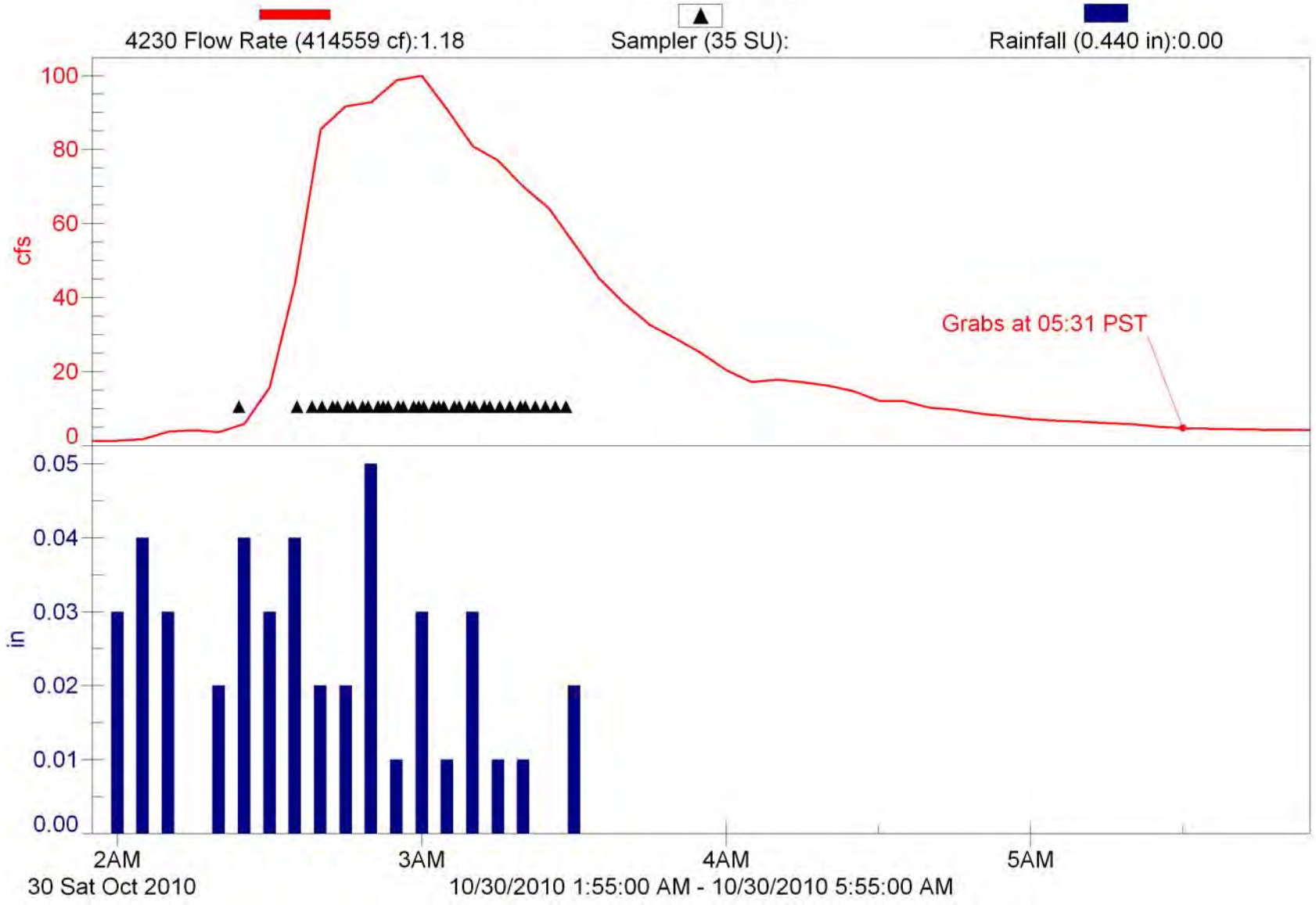

Oxnard-1
2010/11 NPDES Event #2 (Wet)
4230 Flow Rate (890804 cf):0.24
Sampler (35 SU):
Rainfall (0.930 in):0.00
Grabs at 02:40 PST
cfs
200
150
100
50
0
in
0.08
0.06
0.04
0.02
0.00
1AM
2AM
3AM
4AM
5AM
30 Sat Oct 2010
10/30/2010 12:30:00 AM - 10/30/2010 5:30:00 AM

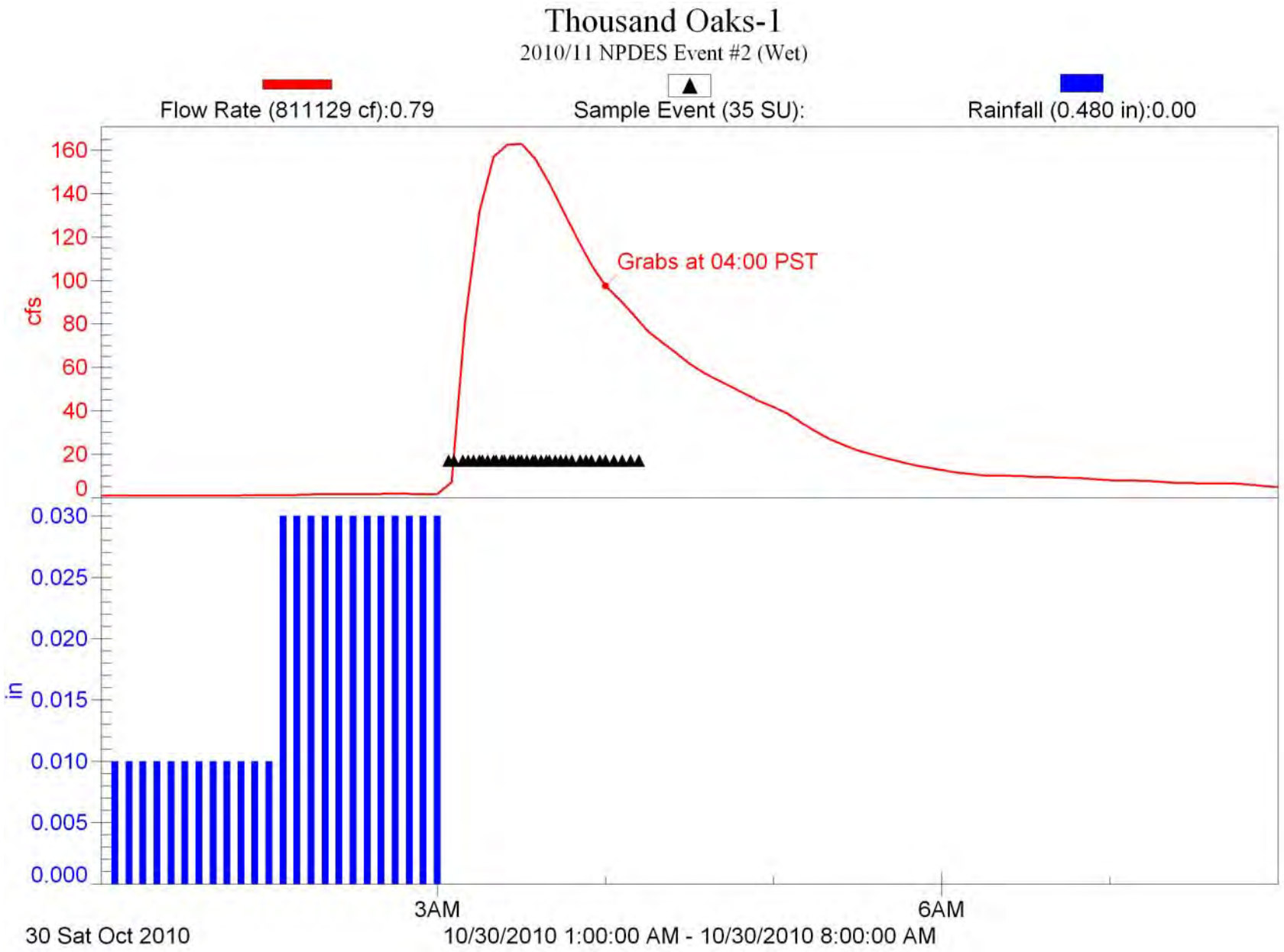

Port Hueneme-1
2010/11 NPDES Event #2 (Wet)
Rainfall (0.800 in):0.00
Sampler:
in
0.10
0.08
0.06
0.04
0.02
0.00
Grabs at 05:40 PST
SU
10
8
6
4
2
0
3AM
6AM
9AM
12PM
30 Sat Oct 2010
10/30/2010 12:45:00 AM - 10/30/2010 1:45:00 PM

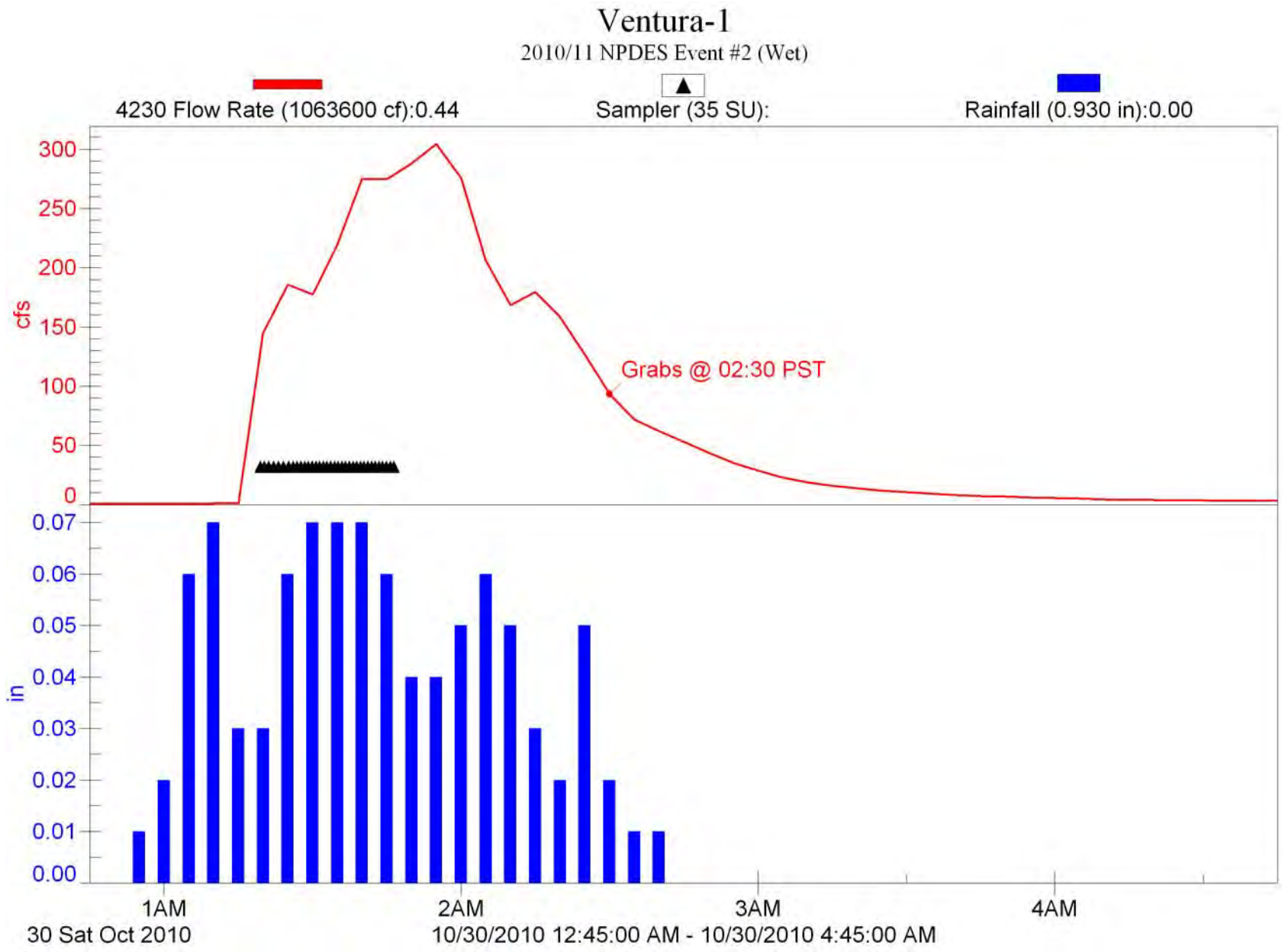

Santa Paula-1
2010/11 NPDES Event #2 (Wet)
4250 Flow Rate (99496.8 cf):0.00
Sampler (35 SU):
Rainfall (0.400 in):0.00
cfs
20
15
10
5
0
Grabs at 03:42 PST
in
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
2AM
3AM
4AM
5AM
30 Sat Oct 2010
10/30/2010 1:15:00 AM - 10/30/2010 5:15:00 AM

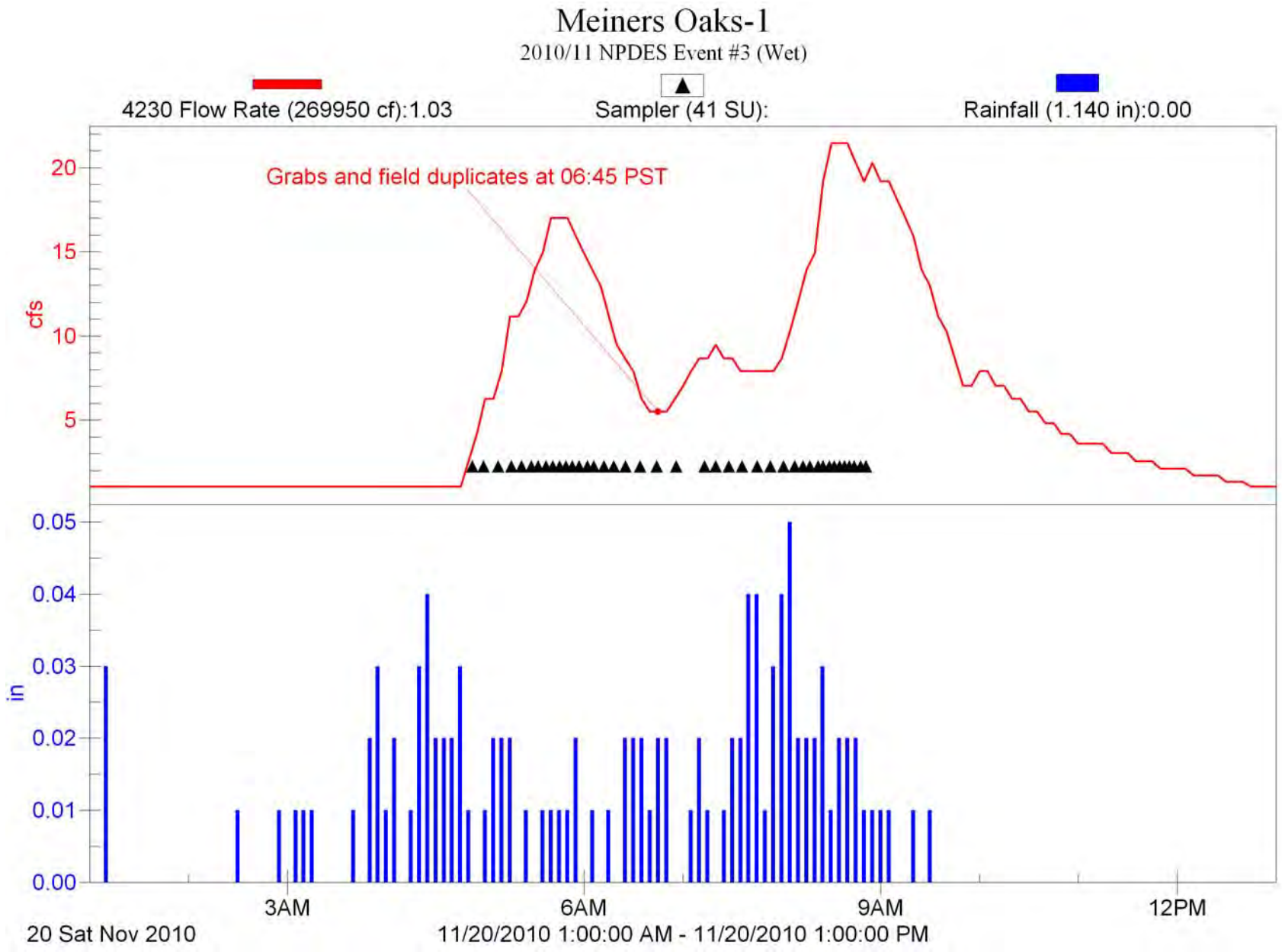
Simi Valley-1

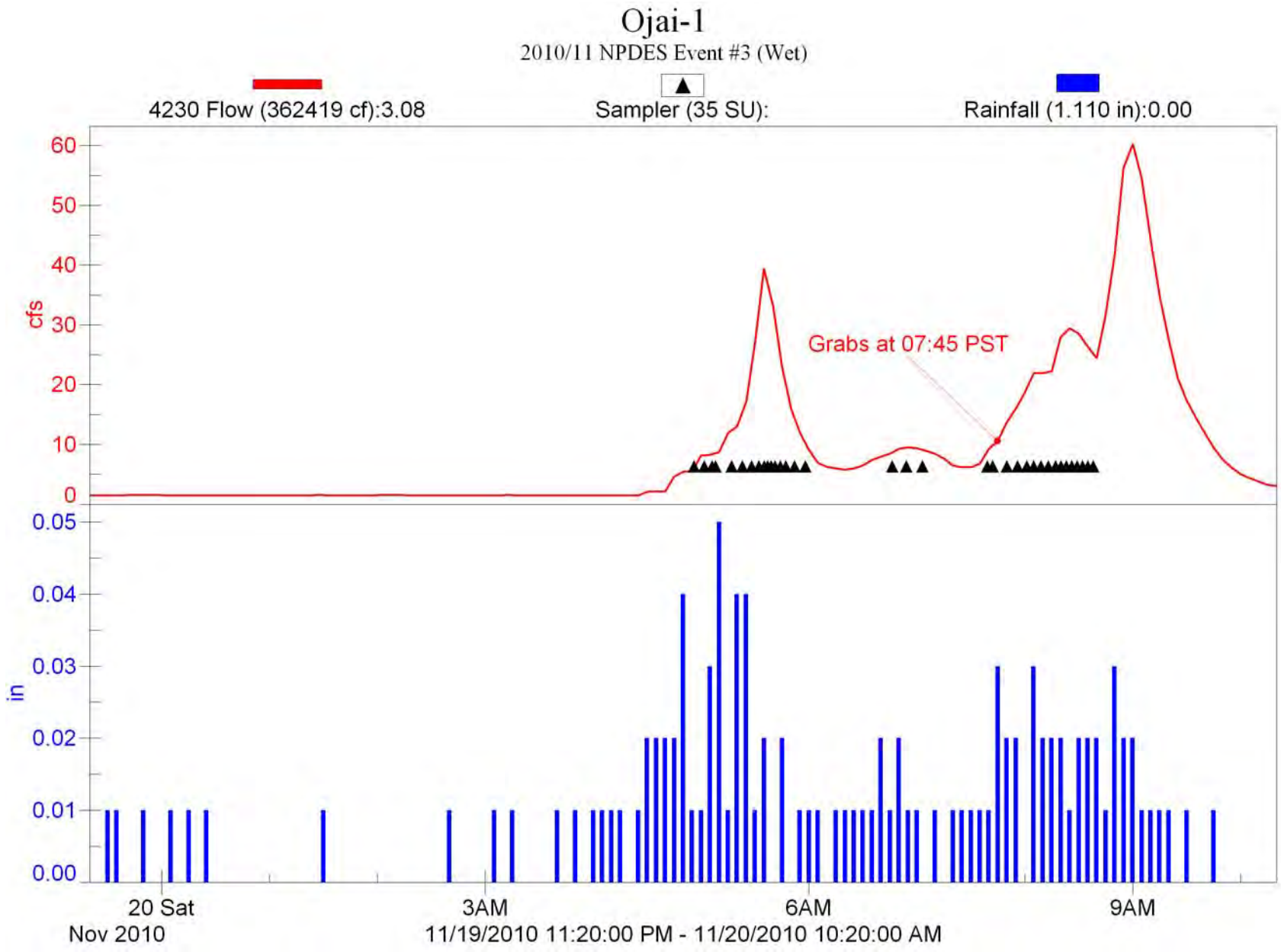
2010/11 NPDES Event #2 (Wet)

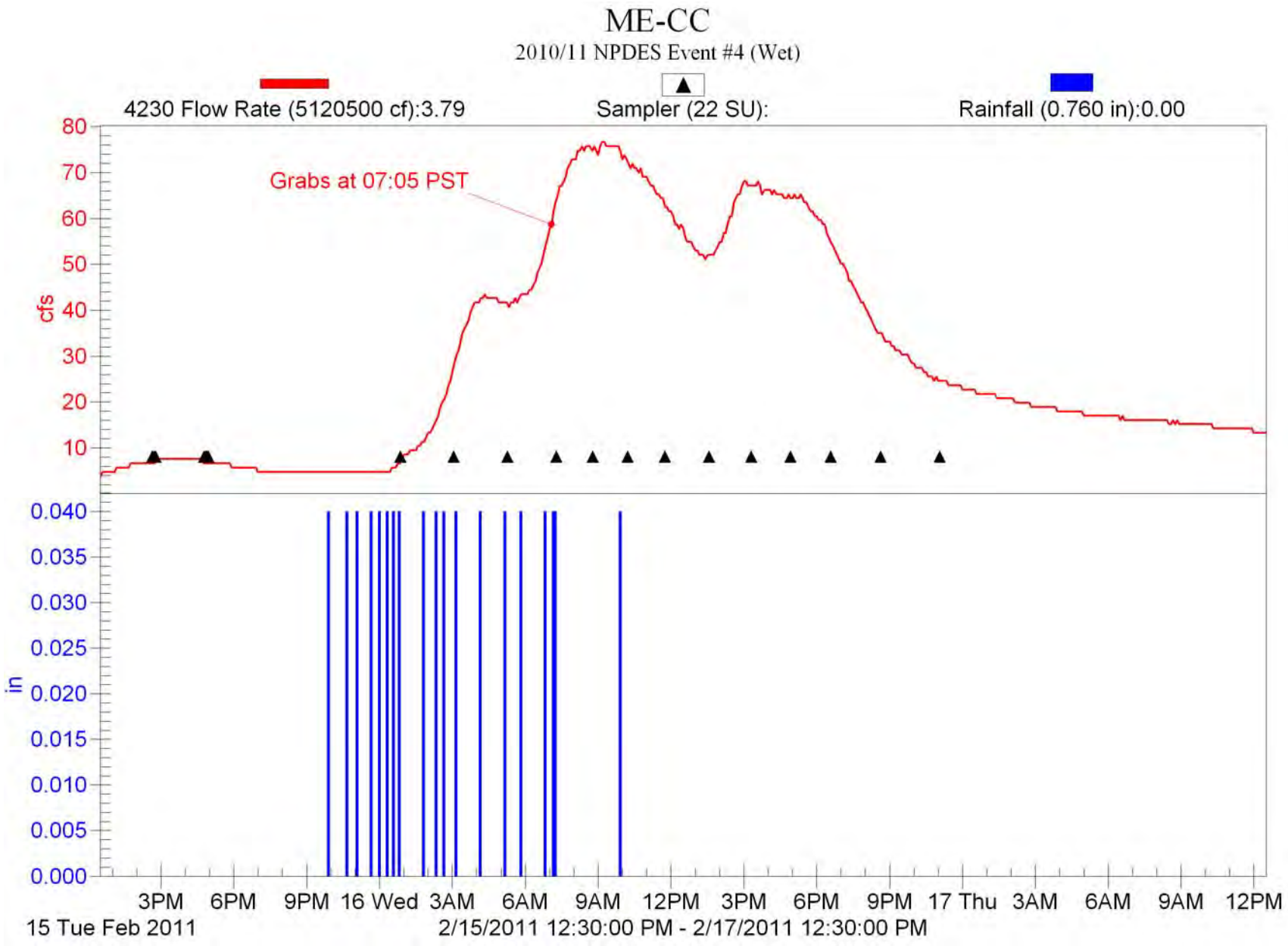



Thousand Oaks-1
2010/11 NPDES Event #2 (Wet)
Flow Rate (811129 cf):0.79
Sample Event (35 SU):
Rainfall (0.480 in):0.00
Grabs at 04:00 PST
cfs
160
140
120
100
80
60
40
20
0
in
0.030
0.025
0.020
0.015
0.010
0.005
0.000
3AM
6AM
30 Sat Oct 2010
10/30/2010 1:00:00 AM - 10/30/2010 8:00:00 AM


Ventura-1
2010/11 NPDES Event #2 (Wet)
4230 Flow Rate (1063600 cf):0.44
Sampler (35 SU):
Rainfall (0.930 in):0.00
cfs
300
250
200
150
100
50
0
Grabs @ 02:30 PST
in
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
1AM
2AM
3AM
4AM
30 Sat Oct 2010
10/30/2010 12:45:00 AM - 10/30/2010 4:45:00 AM


Meiners Oaks-1
2010/11 NPDES Event #3 (Wet)
4230 Flow Rate (269950 cf):1.03
Sampler (41 SU):
Rainfall (1.140 in):0.00
Grabs and field duplicates at 06:45 PST
cfs
20
15
10
5
in
0.05
0.04
0.03
0.02
0.01
0.00
3AM
6AM
9AM
12PM
20 Sat Nov 2010
11/20/2010 1:00:00 AM - 11/20/2010 1:00:00 PM


Ojai-1
2010/11 NPDES Event #3 (Wet)
4230 Flow (362419 cf):3.08
Sampler (35 SU):
Rainfall (1.110 in):0.00
cfs
60
50
40
30
20
10
0
Grabs at 07:45 PST
in
0.05
0.04
0.03
0.02
0.01
0.00
20 Sat
Nov 2010
3AM
6AM
9AM
11/19/2010 11:20:00 PM - 11/20/2010 10:20:00 AM


ME-CC
2010/11 NPDES Event #4 (Wet)
4230 Flow Rate (5120500 cf):3.79
Sampler (22 SU):
Rainfall (0.760 in):0.00
Grabs at 07:05 PST
cfs
80
70
60
50
40
30
20
10
in
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
3PM
6PM
9PM
16 Wed
3AM
6AM
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12PM
3PM
6PM
9PM
17 Thu
3AM
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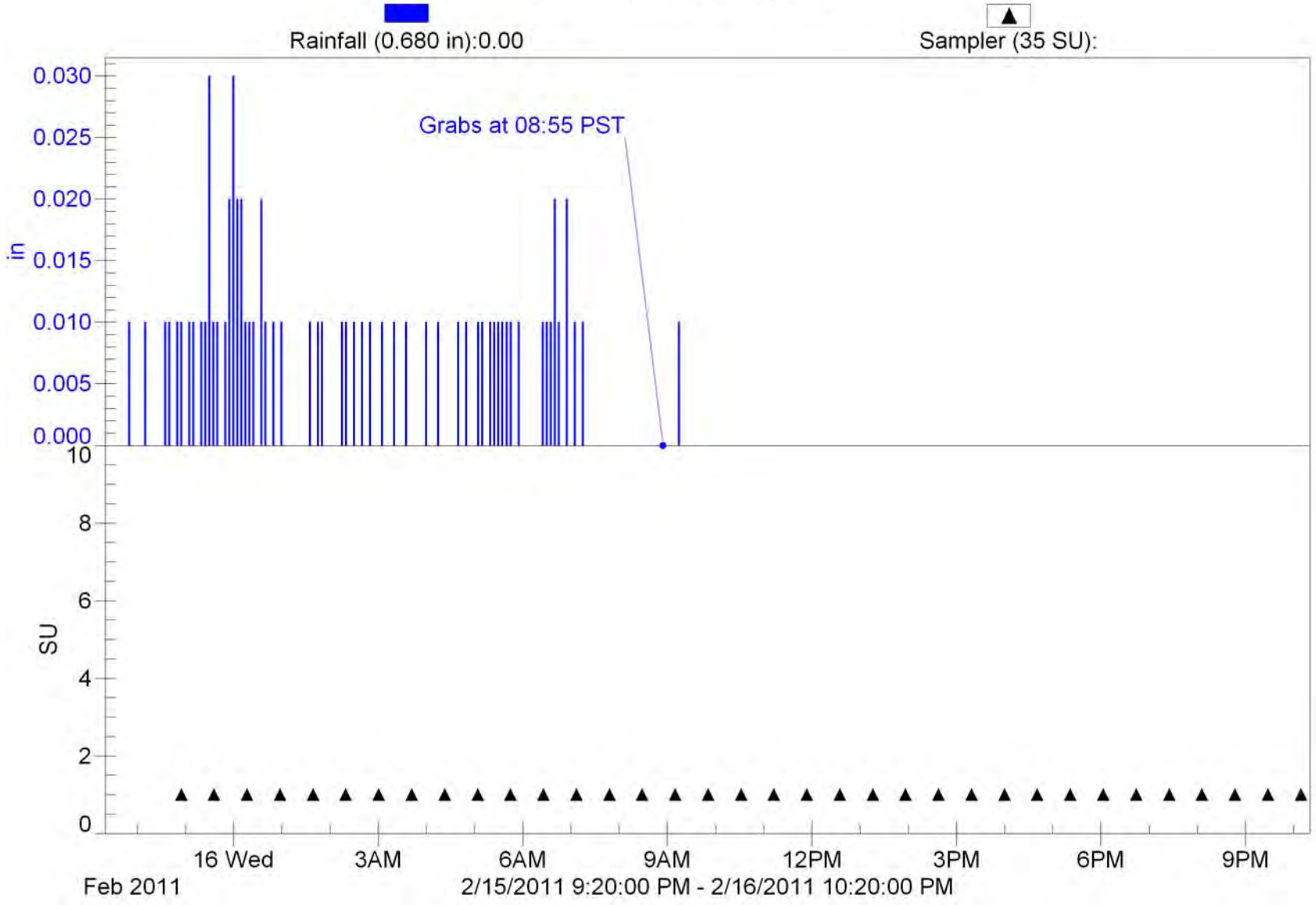
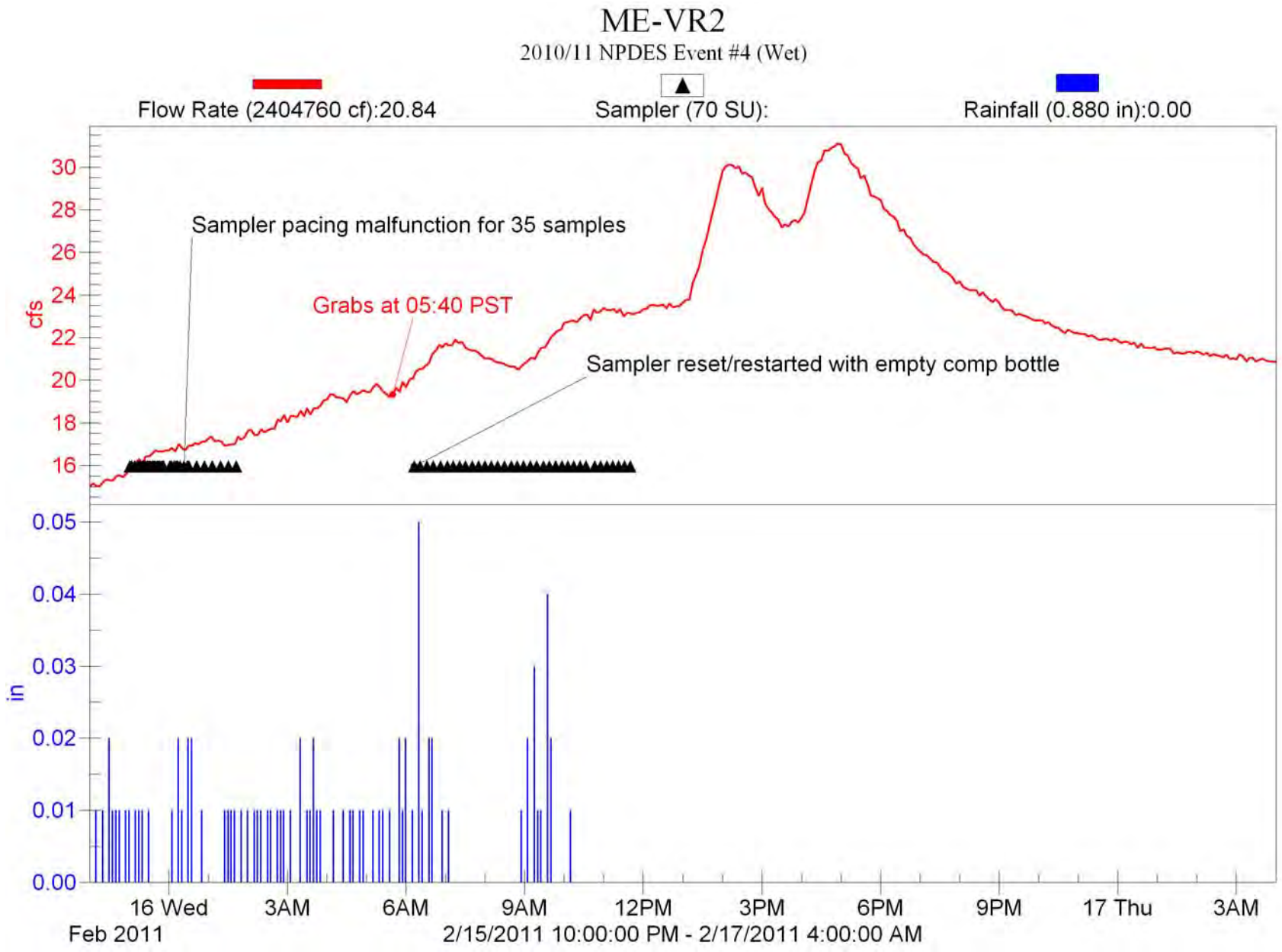
12PM
15 Tue Feb 2011
2/15/2011 12:30:00 PM - 2/17/2011 12:30:00 PM

ME-SCR

2010/11 NPDES Event #4 (Wet)




ME-VR2
2010/11 NPDES Event #4 (Wet)
Flow Rate (2404760 cf):20.84
Sampler (70 SU):
Rainfall (0.880 in):0.00
Sampler pacing malfunction for 35 samples
Grabs at 05:40 PST
Sampler reset/restarted with empty comp bottle
cfs
30
28
26
24
22
20
18
16
in
0.05
0.04
0.03
0.02
0.01
0.00
16 Wed
Feb 2011
3AM
6AM
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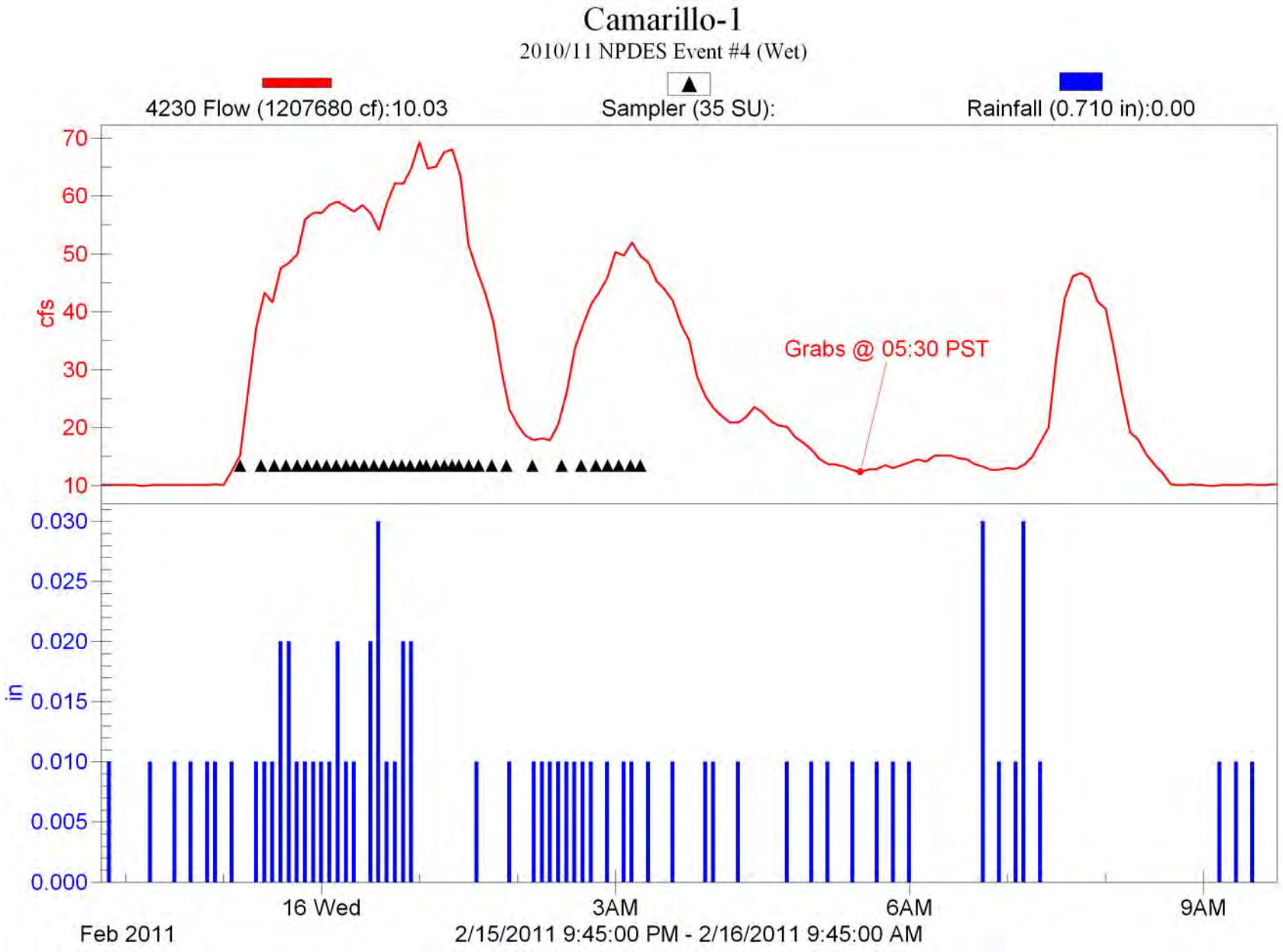
12PM
3PM
6PM
9PM
17 Thu
3AM
2/15/2011 10:00:00 PM - 2/17/2011 4:00:00 AM


Camarillo-1
2010/11 NPDES Event #4 (Wet)
4230 Flow (1207680 cf):10.03
Sampler (35 SU):
Rainfall (0.710 in):0.00
cfs
70
60
50
40
30
20
10
Grabs @ 05:30 PST
in
0.030
0.025
0.020
0.015
0.010
0.005
0.000
16 Wed
3AM
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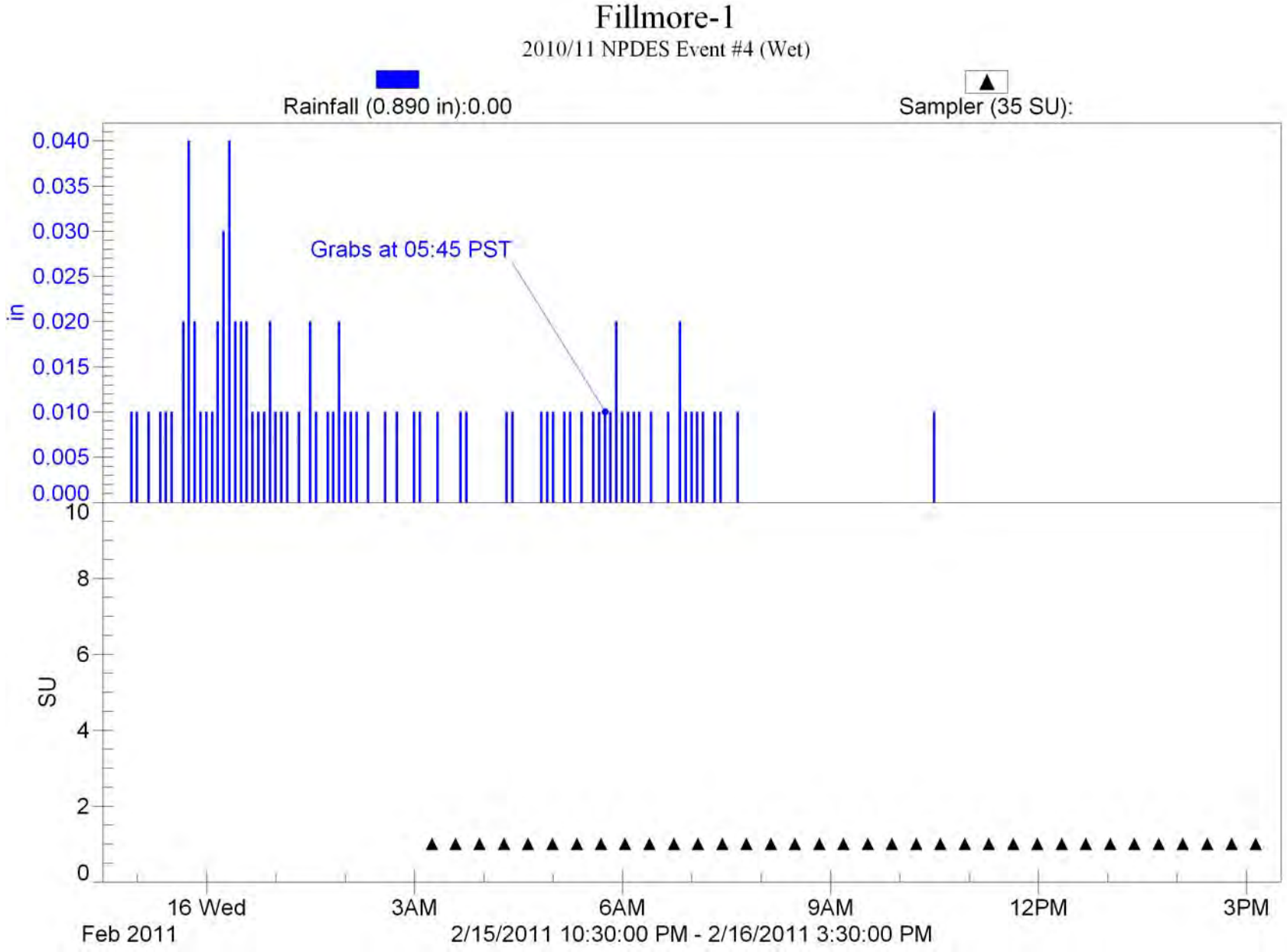
9AM
Feb 2011
2/15/2011 9:45:00 PM - 2/16/2011 9:45:00 AM


Fillmore-1
2010/11 NPDES Event #4 (Wet)
Rainfall (0.890 in):0.00
Sampler (35 SU):
Grabs at 05:45 PST
in
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
SU
10
8
6
4
2
0
16 Wed
Feb 2011
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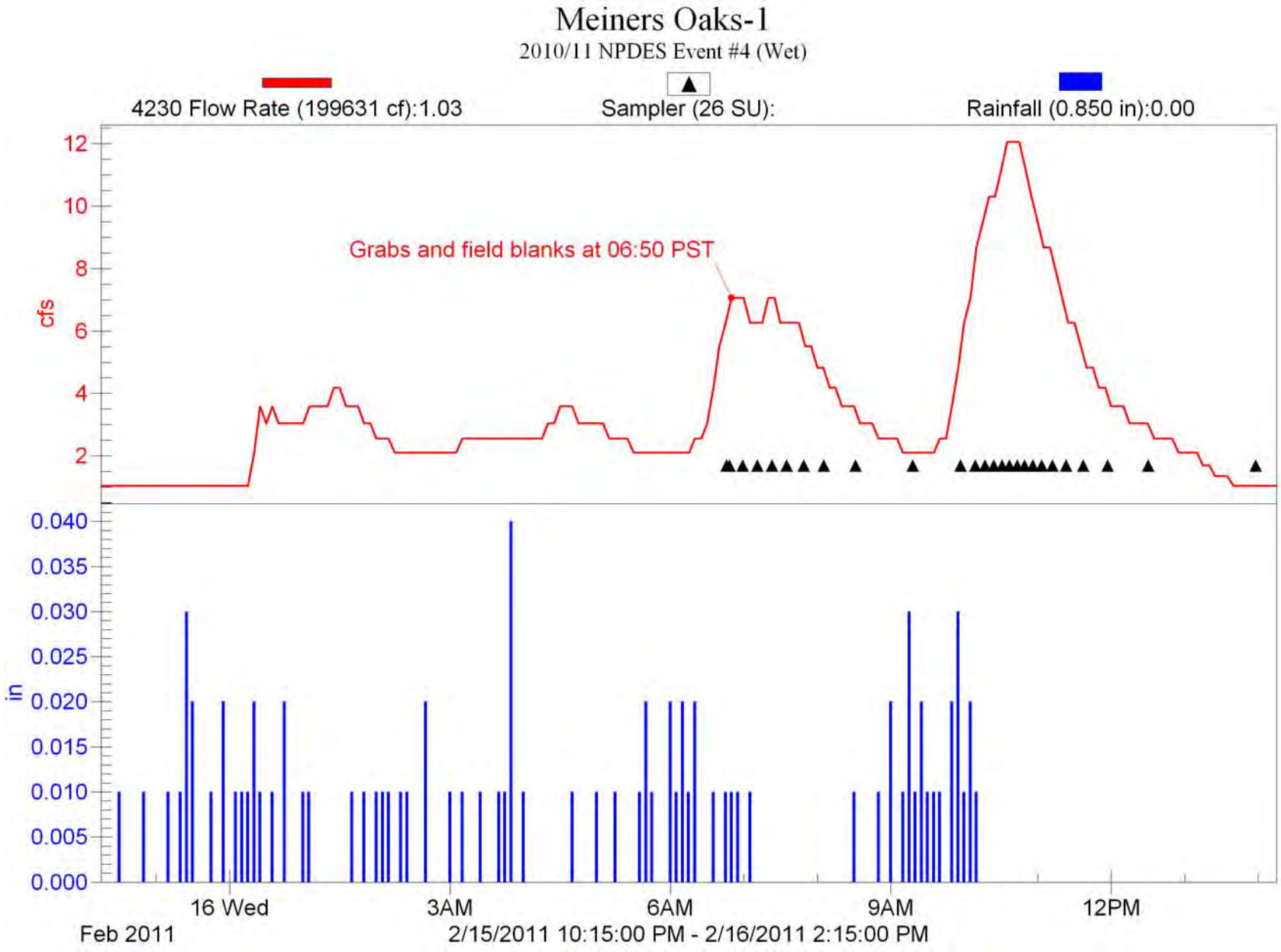
3PM
2/15/2011 10:30:00 PM - 2/16/2011 3:30:00 PM


Meiners Oaks-1
2010/11 NPDES Event #4 (Wet)
4230 Flow Rate (199631 cf):1.03
Sampler (26 SU):
Rainfall (0.850 in):0.00
Grabs and field blanks at 06:50 PST
cfs
12
10
8
6
4
2
in
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
16 Wed
Feb 2011
3AM
6AM
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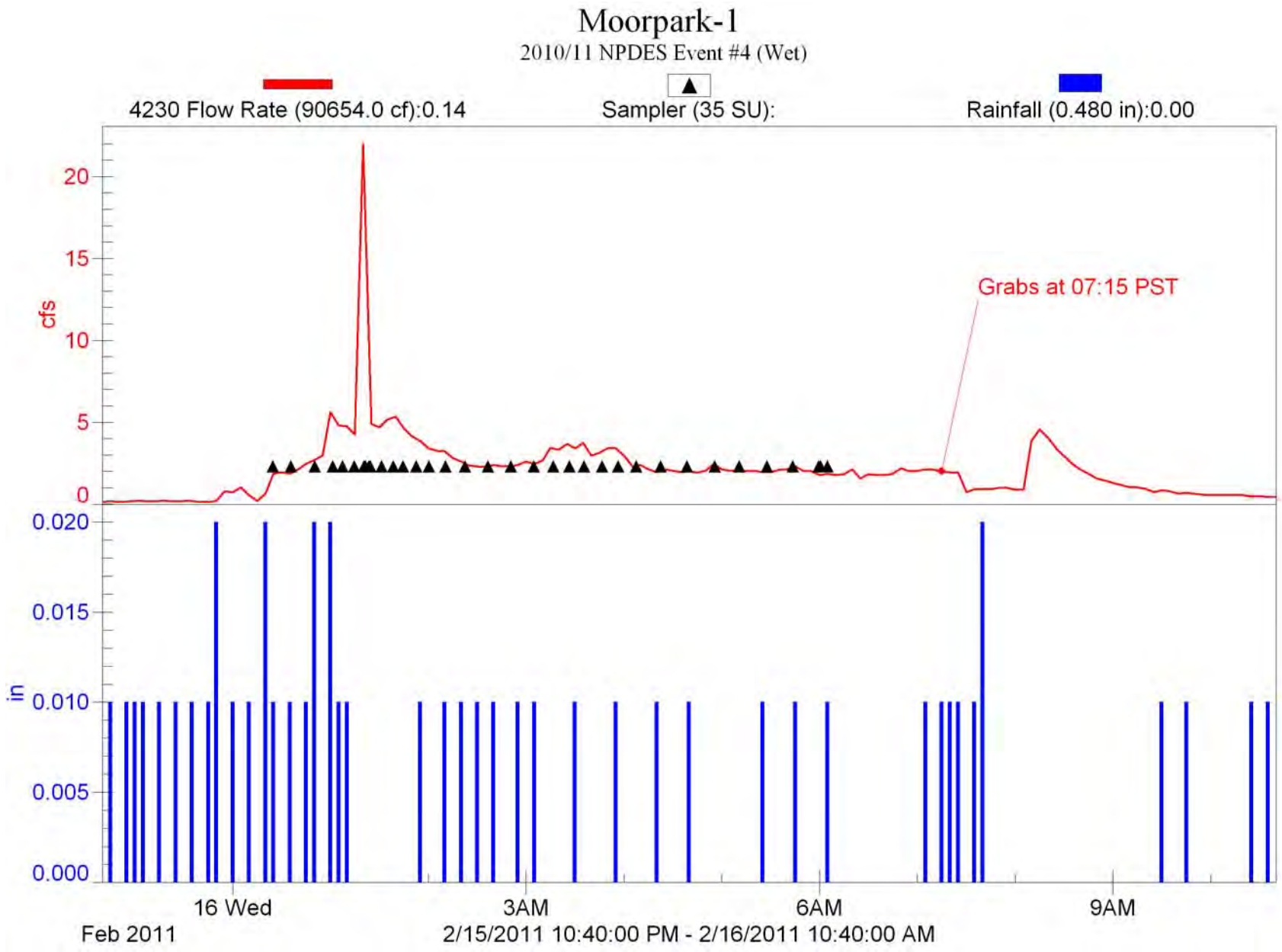
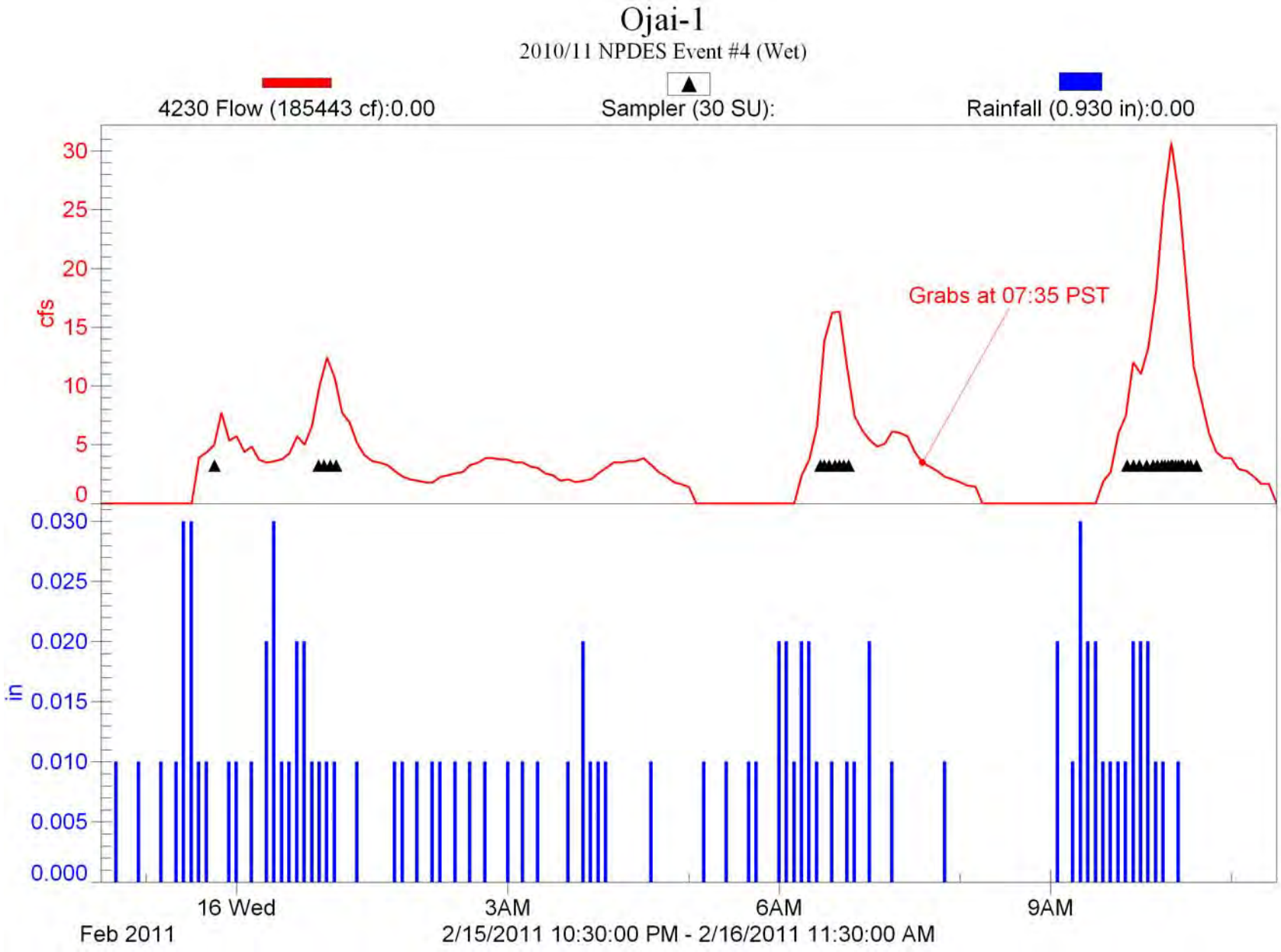
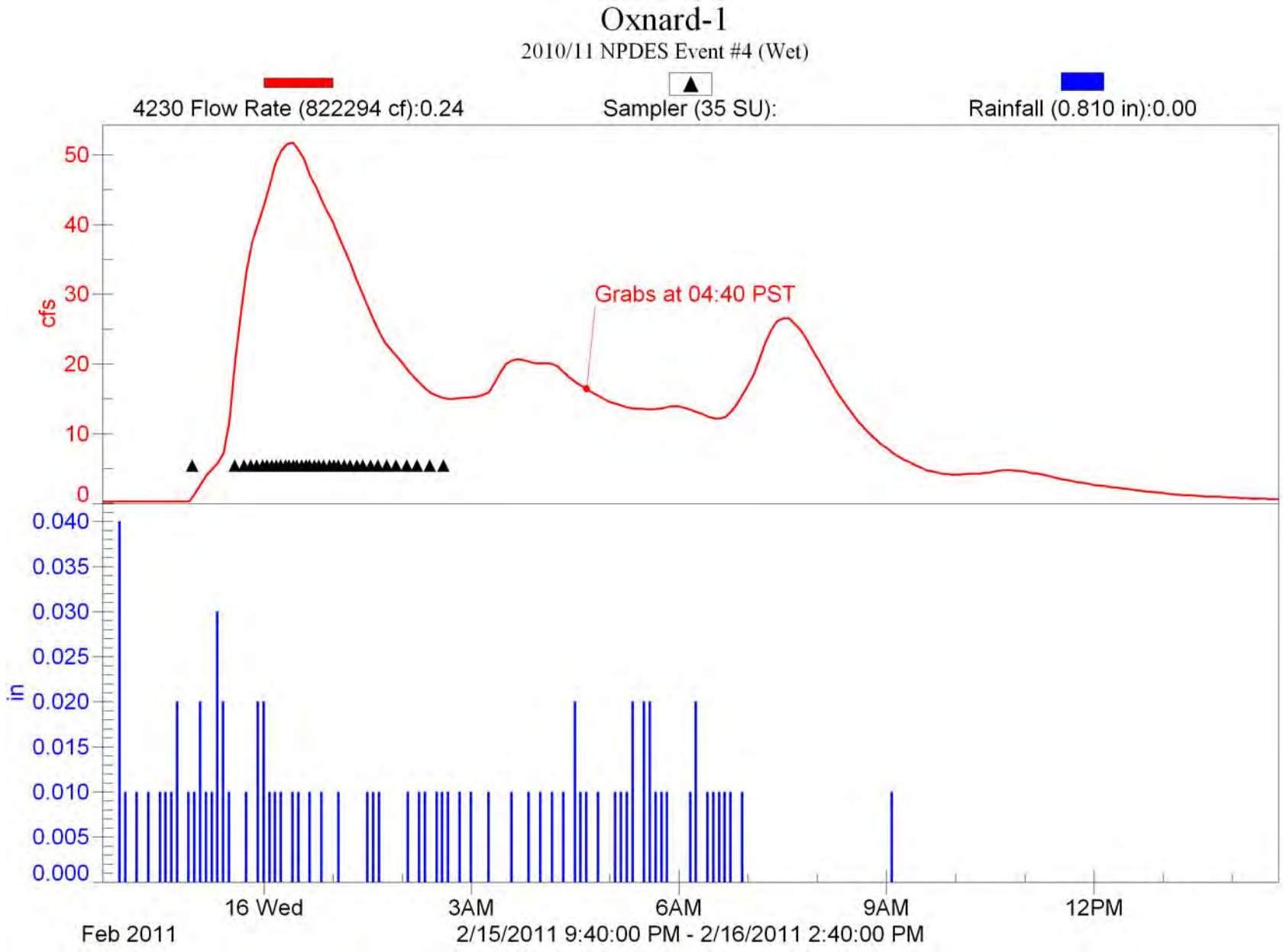
2/15/2011 10:15:00 PM - 2/16/2011 2:15:00 PM


Moorpark-1
2010/11 NPDES Event #4 (Wet)
4230 Flow Rate (90654.0 cf):0.14
Sampler (35 SU):
Rainfall (0.480 in):0.00
cfs
20
15
10
5
0
Grabs at 07:15 PST
in
0.020
0.015
0.010
0.005
0.000
16 Wed
Feb 2011
3AM
6AM
9AM
2/15/2011 10:40:00 PM - 2/16/2011 10:40:00 AM


Ojai-1
2010/11 NPDES Event #4 (Wet)
4230 Flow (185443 cf):0.00
Sampler (30 SU):
Rainfall (0.930 in):0.00
cfs
30
25
20
15
10
5
0
Grabs at 07:35 PST
in
0.030
0.025
0.020
0.015
0.010
0.005
0.000
16 Wed
Feb 2011
3AM
6AM
9AM
2/15/2011 10:30:00 PM - 2/16/2011 11:30:00 AM


Oxnard-1
2010/11 NPDES Event #4 (Wet)
4230 Flow Rate (822294 cf):0.24
Sampler (35 SU):
Rainfall (0.810 in):0.00
cfs
50
40
30
20
10
0
Grabs at 04:40 PST
in
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
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16 Wed
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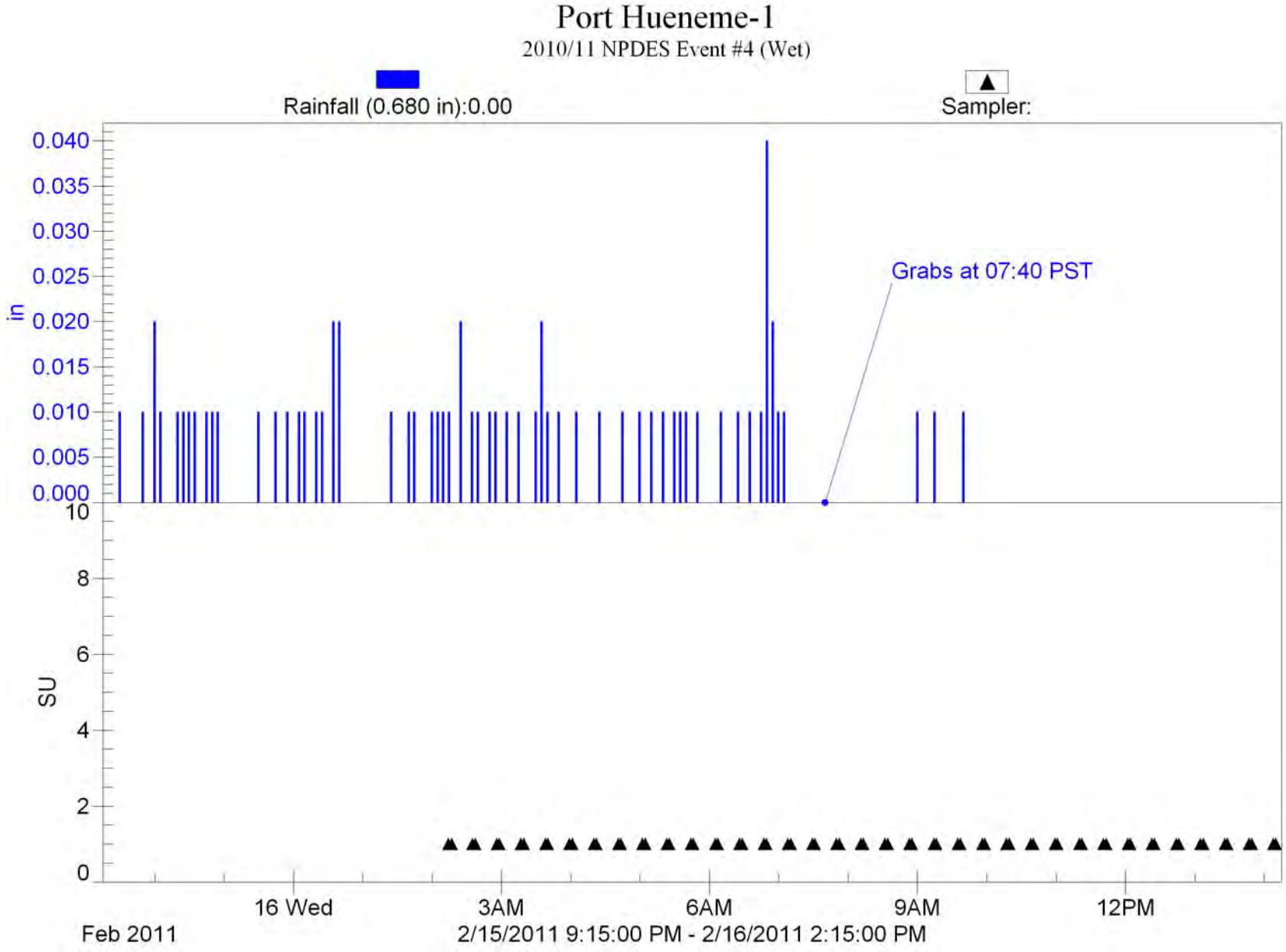
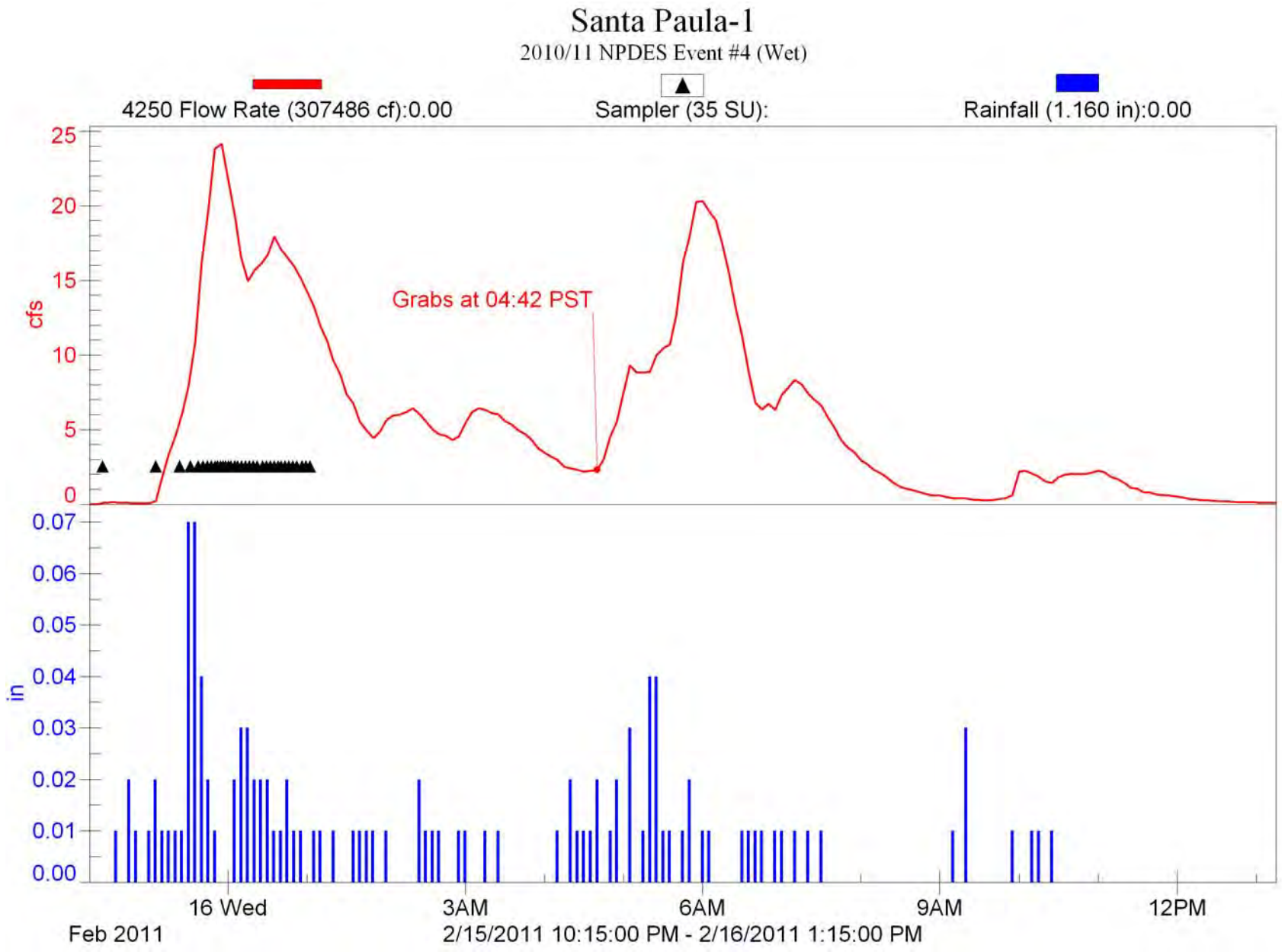
Feb 2011
2/15/2011 9:40:00 PM - 2/16/2011 2:40:00 PM


Port Hueneme-1
2010/11 NPDES Event #4 (Wet)
Rainfall (0.680 in):0.00
Sampler:
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
in
Grabs at 07:40 PST
10
8
6
4
2
0
SU
16 Wed
3AM
6AM
9AM
12PM
Feb 2011
2/15/2011 9:15:00 PM - 2/16/2011 2:15:00 PM


Santa Paula-1
2010/11 NPDES Event #4 (Wet)
4250 Flow Rate (307486 cf):0.00
Sampler (35 SU):
Rainfall (1.160 in):0.00
cfs
25
20
15
10
5
0
Grabs at 04:42 PST
in
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
16 Wed
Feb 2011
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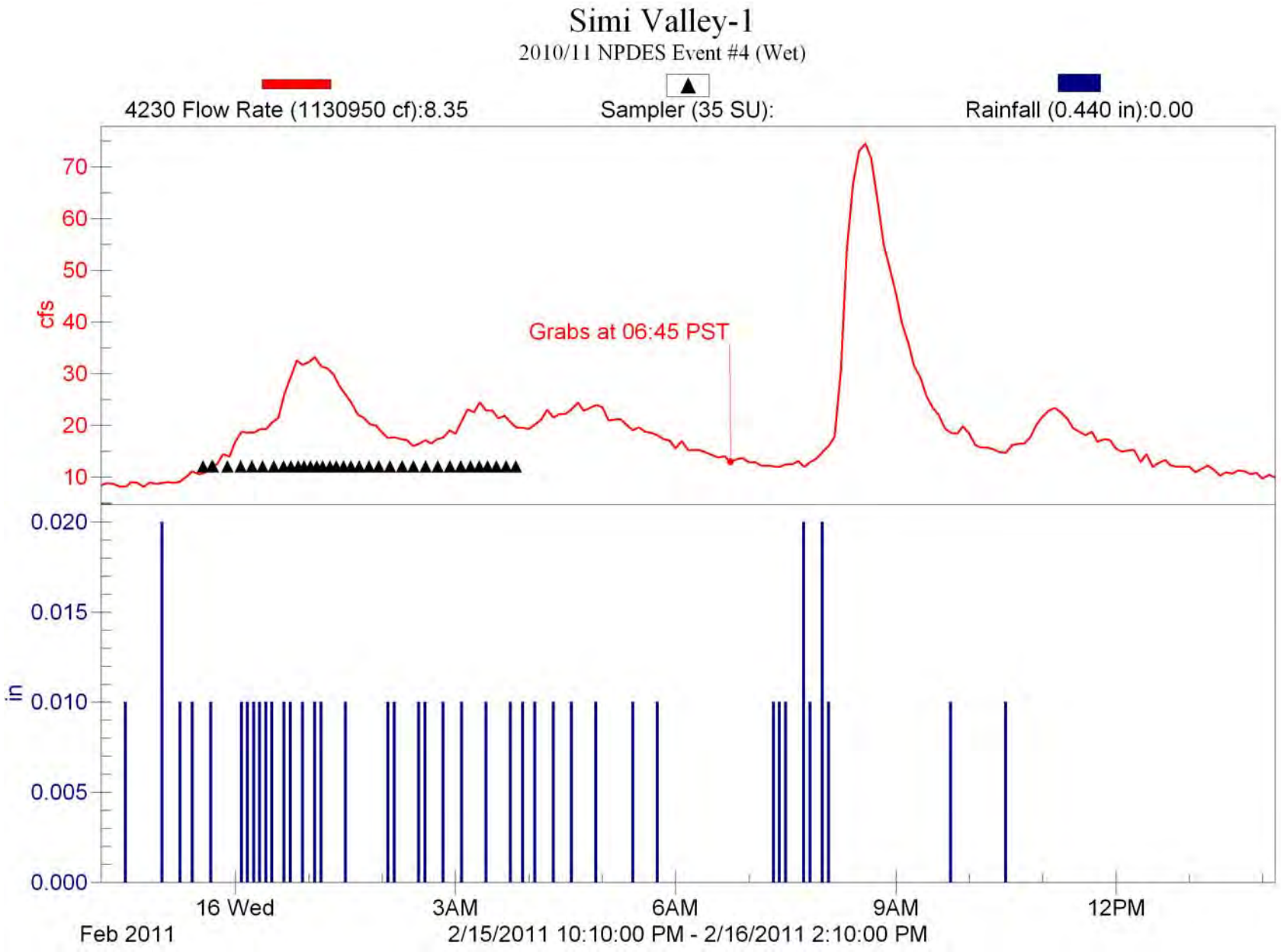
6AM
9AM
12PM
2/15/2011 10:15:00 PM - 2/16/2011 1:15:00 PM


Simi Valley-1
2010/11 NPDES Event #4 (Wet)
4230 Flow Rate (1130950 cf):8.35
Sampler (35 SU):
Rainfall (0.440 in):0.00
cfs
70
60
50
40
30
20
10
Grabs at 06:45 PST
in
0.020
0.015
0.010
0.005
0.000
16 Wed
Feb 2011
3AM
6AM
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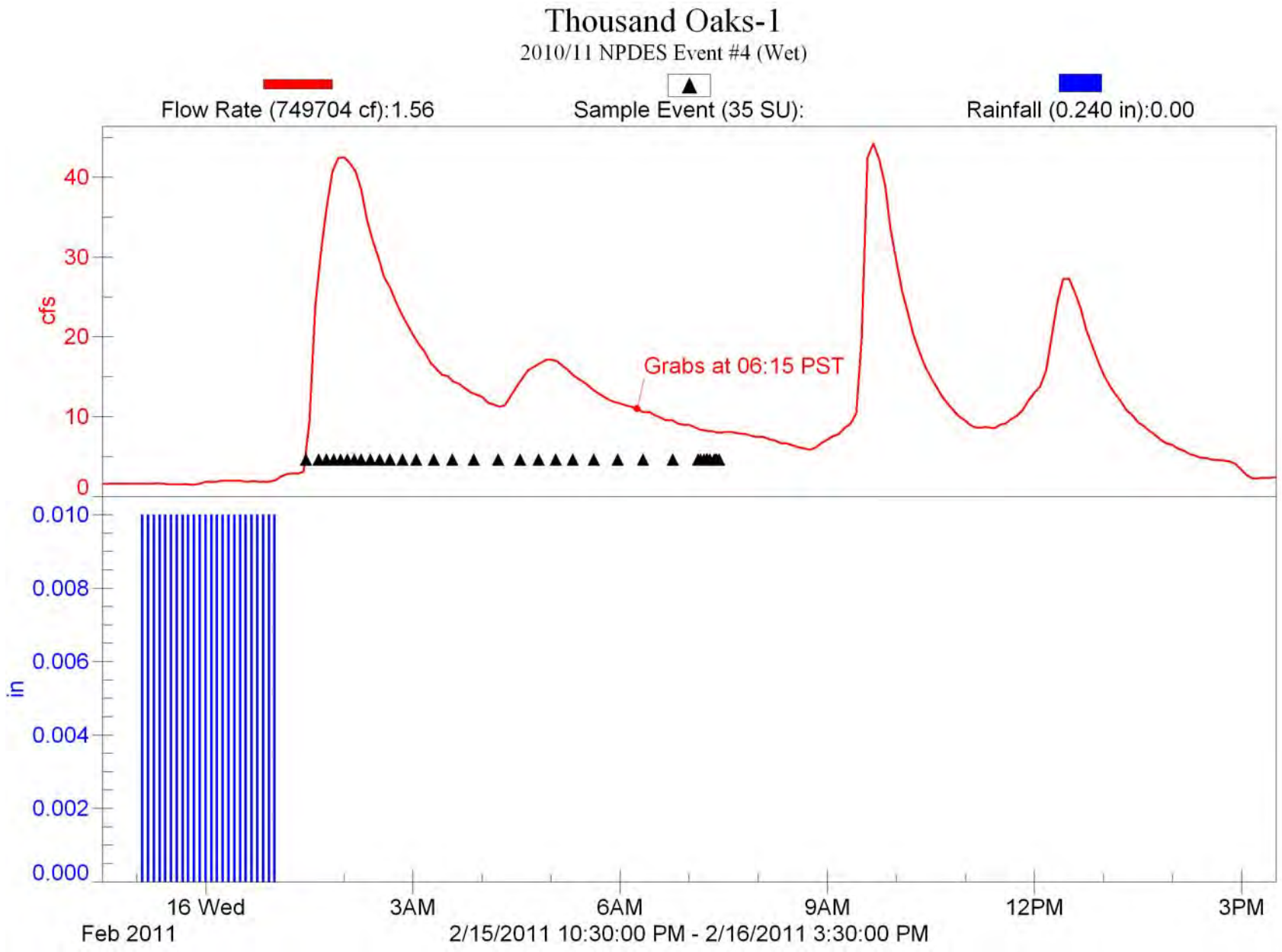
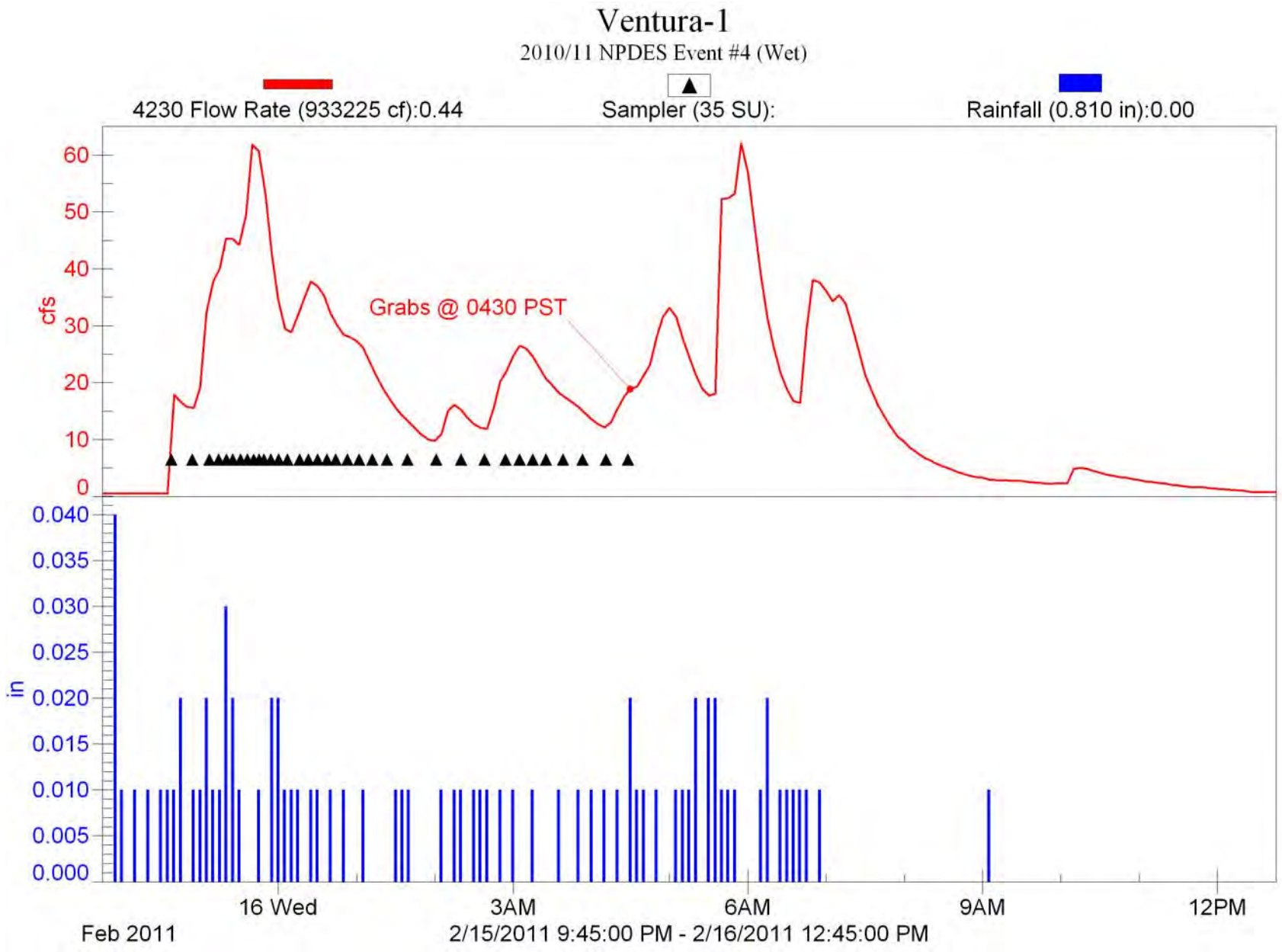
12PM
2/15/2011 10:10:00 PM - 2/16/2011 2:10:00 PM


Thousand Oaks-1
2010/11 NPDES Event #4 (Wet)
Flow Rate (749704 cf):1.56
Sample Event (35 SU):
Rainfall (0.240 in):0.00
cfs
40
30
20
10
0
Grabs at 06:15 PST
in
0.010
0.008
0.006
0.004
0.002
0.000
16 Wed
Feb 2011
3AM
6AM
9AM
12PM
3PM
2/15/2011 10:30:00 PM - 2/16/2011 3:30:00 PM


Ventura-1
2010/11 NPDES Event #4 (Wet)
4230 Flow Rate (933225 cf):0.44
Sampler (35 SU):
Rainfall (0.810 in):0.00
cfs
60
50
40
30
20
10
0
Grabs @ 0430 PST
in
0.040
0.035
0.030
0.025
0.020
0.015
0.010
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16 Wed
3AM
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Appendix C. NRCS Curve Number Methodology Discussion

Ventura County
Watershed Protection District
Planning & Regulatory
Hydrology Section
MEMORANDUM

DATE: September 4, 2009 Updated August 12, 2010

TO: Tommy Liddell

VIA: Bruce Rindahl

FROM: Mark Bandurraga

SUBJECT: **NPDES Monitoring Site Yield Evaluation**

Per your request, we have used the land use and watershed information you provided to prepare a spreadsheet that can be used to estimate the runoff quantities from storm forecasts. The runoff quantity is estimated using the NRCS Curve Number approach that is a common method in hydrology. The results show that the weighed Curve Numbers estimated from the evaluation range from a low of about 74 for the rural Fox Canyon Drain watershed in Ojai to a high of about 91 for the urbanized watershed in the City of Ventura. The methodology and files used to calculate the Curve Numbers are described in this memo for the watersheds shown in Figures 1-4.

In August 2010 you requested results for another 7 monitoring sites across the county. This memo describes the additional work done for that request.

Curve Number Calculation Methodology

Land Use Data

Land Use data used in the study were provided by the Water Quality Section already clipped to the monitoring site boundaries and in a geodatabase. The land use data were extracted from the Assessor's Parcel database which is considered to be current as of the date of extraction (Feb 12, 2009). The various classifications in the file based on the assessor's 4-digit site use codes were sorted and assigned hydrologic land use names associated with the various classifications contained in the Curve Number (CN) Table from the Hydrology Manual (2006) as shown in Table 1. The categories in the land use file corresponded well with the land uses in the VCWPD CN Table with the following exceptions:

1. Vacant undifferentiated land was assumed be open brush in fair condition in rural areas and open space with 50% grass cover in urban areas.
2. Mixed urban land uses were assumed to correspond to commercial properties with 50% effective impervious.
3. Fire stations, public buildings, and schools were assigned to the low industrial use category with an effective impervious value of 36% due to the potential for large landscaped areas.

Table 1 Land Uses In NPDES Database (Assessor's Land Uses)

KVM_CAT1	SHORT_	Name
Agriculture	Abandoned Orchards and Vineyards	Orchard
Agriculture	Horse Ranches	open
Agriculture	Nurseries	Orchard
Agriculture	Orchards and Vineyards	Orchard
Agriculture	Vacant With Limited Improvements	open
Com_Indus. Mix	Mixed Commercial and Industrial	Comm
Commer.	Commercial Recreation	Comm
Commer.	Commercial Storage	Comm
Commer.	Low- to Medium-Rise Major Office Use	comm
Commer.	Modern Strip Development	comm
Commer.	Retail Centers (Non-Strip with Contiguous Interconnected Off-Street Parking)	comm
Extraction	WHOLESALING AND WAREHOUSING	indhigh
Facilitiy	Fire Stations**	indlow
Facilitiy	Government Offices	indlow
Facilitiy	Major Medical Health Care Facilities	comm
Facilitiy	Other Public Facilities	indlow
Facilitiy	Other Special Use Facilities	indlow
Facilitiy	Police and Sheriff Stations**	indlow
Facilitiy	Religious Facilities	indlow
Facilitiy	Special Care Facilities	indlow
Industrial_1	Open Storage	indlow
Industrial_1	Packing Houses and Grain Elevators	indlow
Industrial_3	Manufacturing, Assembly, and Industrial Services	indhigh
No Info Given		open
Recreation	Other Open Space and Recreation	open
Res.1	Low Density Single Family Residential	reslow
Res.1	Trailer Parks and Mobile Home Courts, High Density	reshigh
Res.2	Low-Rise Apartments, Condominiums, and Townhouses	reshigh
Res.2	Rural Residential Low Density	resrural
Res.3	High Density Single Family Residential	reshigh
Res.4	Duplexes, Triplexes, and 2- or 3-Unit Condominiums and Townhouses	reshigh
Res.4	Medium-Rise Apartments and Condominiums	reshigh
Res.4	Mixed Urban	comm
Schools	Elementary Schools**	indlow
Schools	Junior High Schools**	indlow
Schools	Senior High Schools**	indlow
Transportation	Freeways and Major Roads	paved
Transportation	Mixed Transportation	paved
Transportation	Truck Terminals	paved
Under Constructi	Under Construction	indlow
Utilities	Electrical Power Facilities	indlow
Vacant Undiffere	Vacant Undifferentiated (rural)	brushfair
Vacant Undiffere	Vacant Undifferentiated (city)	open

Soils Information

The soils information was obtained from the District soils shapefile that groups the soil info into categories 1 through 7 corresponding to the NRCS soil categories D through A, respectively. The soils info was clipped to the watershed boundaries using the watershed shapefile. The areas

obtained from the soils files were checked against the total watershed areas to make sure they were identical.

Combined Soils and Land Use Information and Weighted Curve Numbers

The soils and land use shapefiles were then unioned in GIS to obtain the combinations of soil type and land uses in the watersheds. The resulting table was imported into excel and sorted to group the various land uses. The land uses were then assigned a name associated with the data in the District CN Table. Based on the name and soil number, excel functions "match" and "offset" were used to obtain a CN from the CN Table. The weighted soil number and Curve Number for each watershed were calculated using the areas, soil numbers, and CN's. The weighted soil types were checked against the data in the original watershed soil files and were found to be the same. The weighted Curve Numbers were linked to a summary worksheet to be used to calculate the yields by the Water Quality Section. This procedure was also applied to the 7 additional watersheds added to the study in August 2010.

The results are shown in Table 2.

Table 2: Storm Yield Results- Weighted Average Curve Numbers

Watershed Name	Size ac	Compo-site CN	Rain (in)	Initial Abs S (no units)	Rain cutoff (in)	Yield (in)	% Yield
Camarillo	2,779	85.12	5.00	1.75	0.35	3.38	68%
Happy Valley	1,026	77.29	5.00	2.94	0.59	2.65	53%
Fox	749	74.19	5.00	3.48	0.70	2.38	48%
Ventura	707	90.93	5.00	1.00	0.20	3.97	79%
Fillmore	762	74.77	5.00	3.37	0.67	2.43	49%
Port Hueneme	589	85.60	5.00	1.68	0.34	3.43	69%
Moorpark	1,816	63.34	5.00	5.79	1.16	1.53	31%
Oxnard	1,374	84.07	5.00	1.89	0.38	3.28	66%
Simi Valley	3,321	71.04	5.00	4.08	0.82	2.12	42%
Santa Paula	64	80.07	5.00	2.49	0.50	2.90	58%
Thousand Oaks	5,179	81.54	5.00	2.26	0.45	3.04	61%

Between the first request and present, the Hydrology Section has updated their Curve Number tables to make them more consistent with reported infiltration rates in the Hydrology Manual. The resultant CNs were used in the study to see the effect on the yields as shown in Table 3.

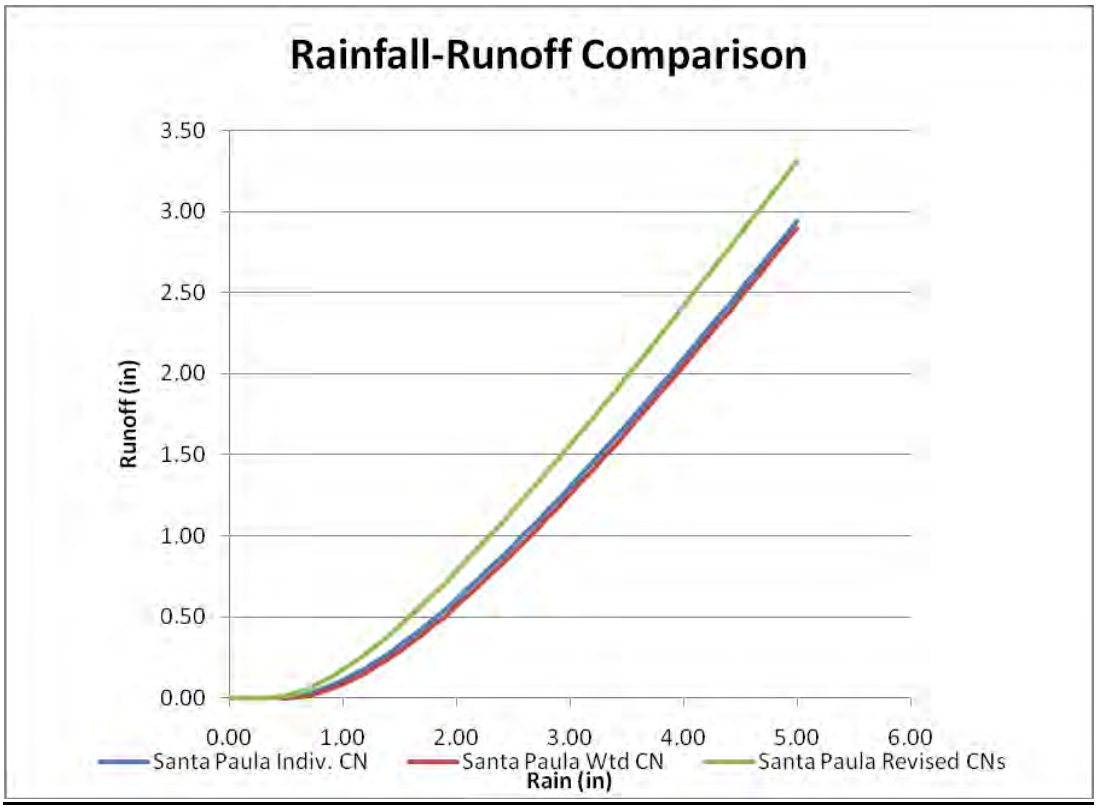
Table 3: Storm Yield Results- Weighted Average Curve Numbers with Updated CNs

Watershed Name	Size ac	Compo-site CN	Rain (in)	Initial Abs S (no units)	Rain Cutoff (in)	Yield (in)	% Yield
Camarillo	2,779	84.72	5.00	1.80	0.36	3.34	67%
Happy Valley	1,026	77.22	5.00	2.95	0.59	2.64	53%
Fox	749	73.48	5.00	3.61	0.72	2.32	46%
Ventura	707	91.24	5.00	0.96	0.19	4.01	80%
Fillmore	762	74.39	5.00	3.44	0.69	2.40	48%
Port Hueneme	589	86.14	5.00	1.61	0.32	3.48	70%
Moorpark	1,816	64.63	5.00	5.47	1.09	1.63	33%
Oxnard	1,374	84.01	5.00	1.90	0.38	3.27	65%
Simi Valley	3,321	71.11	5.00	4.06	0.81	2.13	43%
Santa Paula	64	84.22	5.00	1.87	0.37	3.29	66%
Thousand Oaks	5,179	81.27	5.00	2.30	0.46	3.01	60%

The results showed that the revised CNs provided yields that were 1 or 2% higher than the 2006 CN set except for the Santa Paula watershed. This watershed was soil type 6, which had CNs that were more affected by the updates than most of the CNs for the other soils.

While working on the 2nd request, it was realized that the Hydrology Section could provide more precise estimates of flow at lower rainfall levels by analyzing each soil/land use combination individually and summing the results rather than using a weighted average CN in the runoff equation. So the individual CN results were calculated and summed for both the 7 sites in this update and the previous 4 sites. The resultant spreadsheets provide tables of runoff vs rainfall data. Figure 1 shows a comparison of the rainfall and runoff from a highly developed watershed Camarillo using the weighted average CN, individual CNs, and revised individual CNs.

Figure 1



Conclusions and Limitations

The provided weighted CNs can be used to estimate runoff from low to moderately saturated watersheds. It has been our experience that it is necessary to use Antecedent Moisture Condition III CNs for highly saturated watersheds which only occurs after many days of heavy rainfall such as January 10, 2005. The provided CNs probably will overpredict the runoff coming from the first storms of the season due to the very dry antecedent moisture conditions present then. If necessary further work can be done to provide CNs representing AMC I conditions. Also, the CNs assigned to the various land uses can be calibrated after enough storms have occurred to evaluate the predictive accuracy of the current yield equations provided to the NPDES group. It should also be possible to provide forecasts of runoff from the HSPF forecast model of the Ventura River watershed that more accurate reflect saturated/unsaturated conditions.

List of Files in Work Directory K:\PR\hydrology\Watersheds\NPDES\Monitoring_Sites

Filename	Description
GIS	Contains GIS files used in evaluation
GIS2010	Contains 2010 GIS files used in updated evaluation
ClippedLandUse.mdb	Geodatabase with land uses clipped to watershed boundaries provided by WQ section
*_SelectedWatershed.shp	shapefiles showing boundaries of monitoring watersheds
*soils.shp	soils shapefiles clipped to watershed boundaries
*soilsunion.shp	Union of soils and land use data shapefile for watersheds
Allsoil.shp	VCWPD soils shapefile showing numbers for hydrology calcs
NPDES_MonitoringSitesRunoff9-09.xls	9-09 CN data
NPDES_MonitoringSitesRunoff8-10.xls	8-10 updated analysis for 11 sites total
NPDES_MonitoringSitesRunoff8-10RevCNs.xls	8-10 analysis using revised CNs
MonitoringSites9-09.mxd	ArcMap project file for analysis

Ventura Watershed

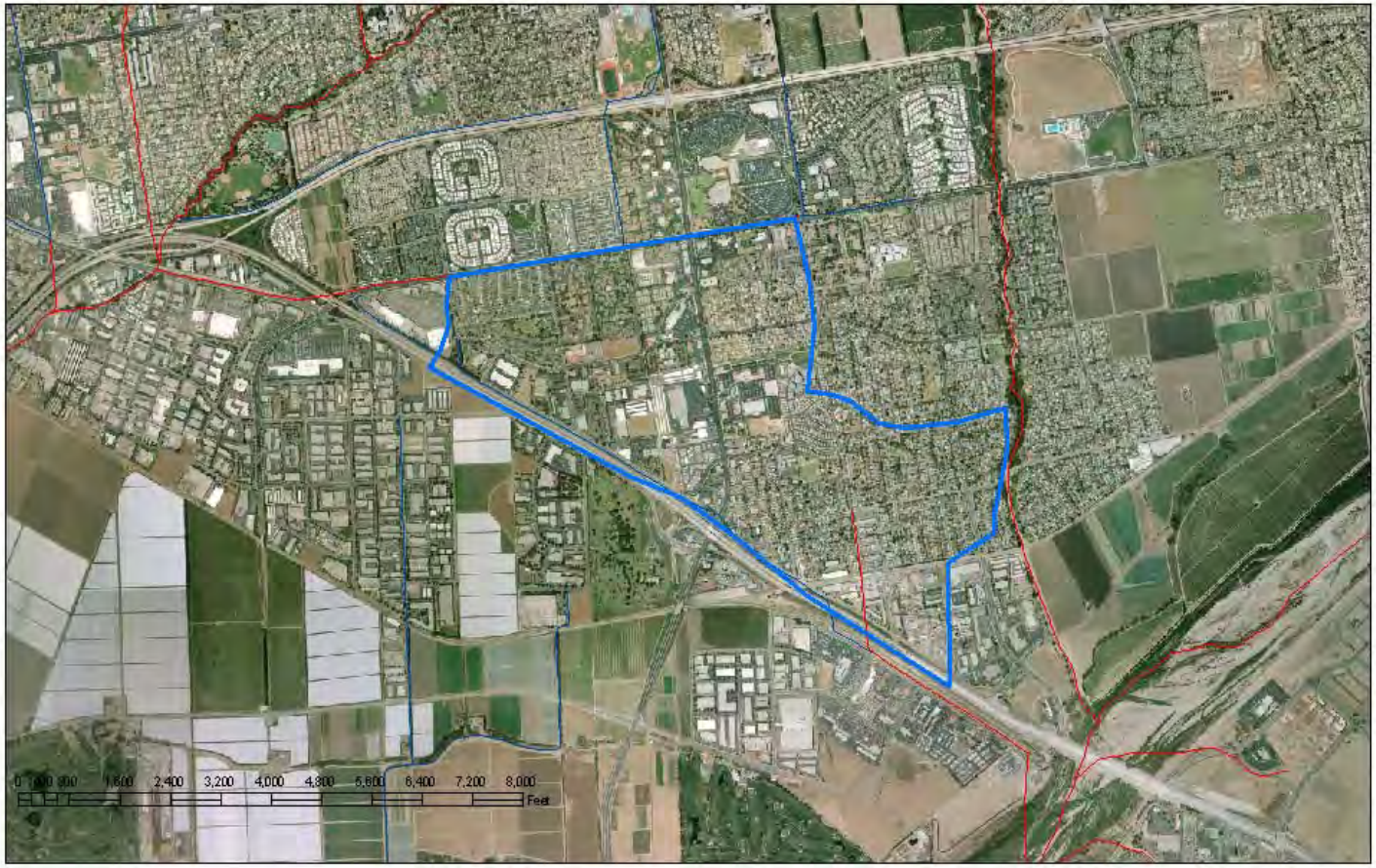


Figure 2

Meiners Oaks Happy Valley Watershed

Figure 3

Ojai Fox Watershed

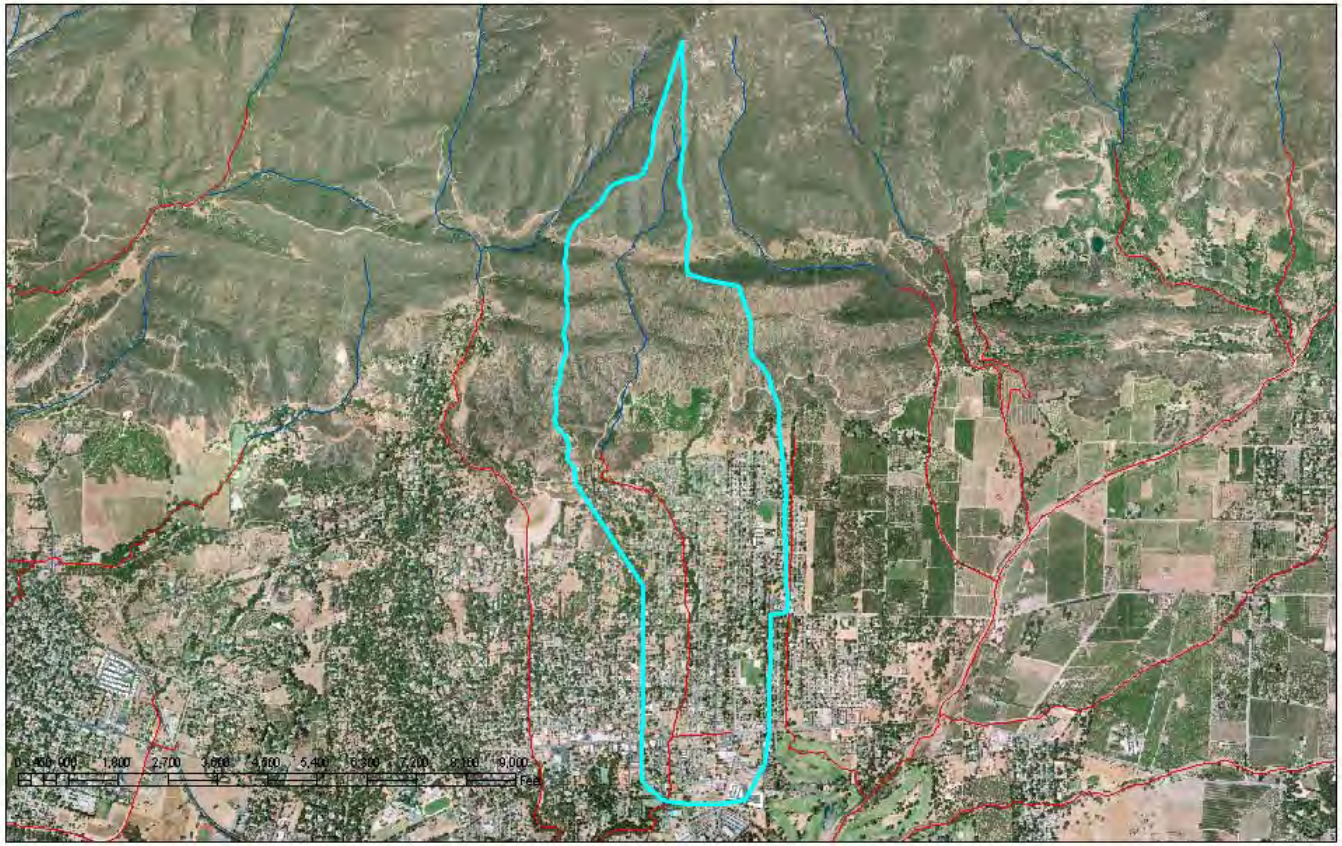


Figure 4

Camarillo Hills Drain Watershed

Figure 5

Simi Valley Watershed

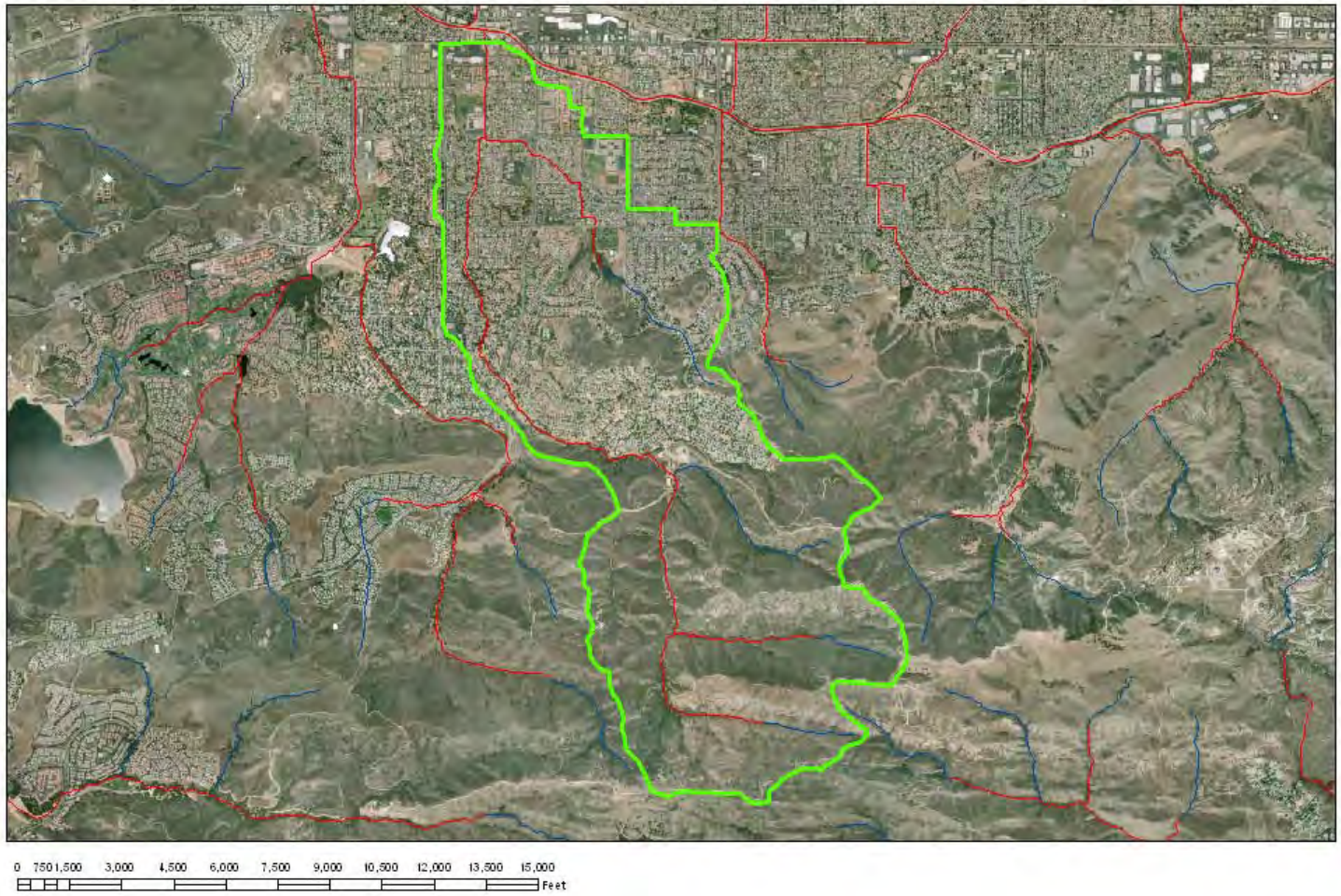


Figure 6

Oxnard Watershed

Figure 7

Moorpark Watershed

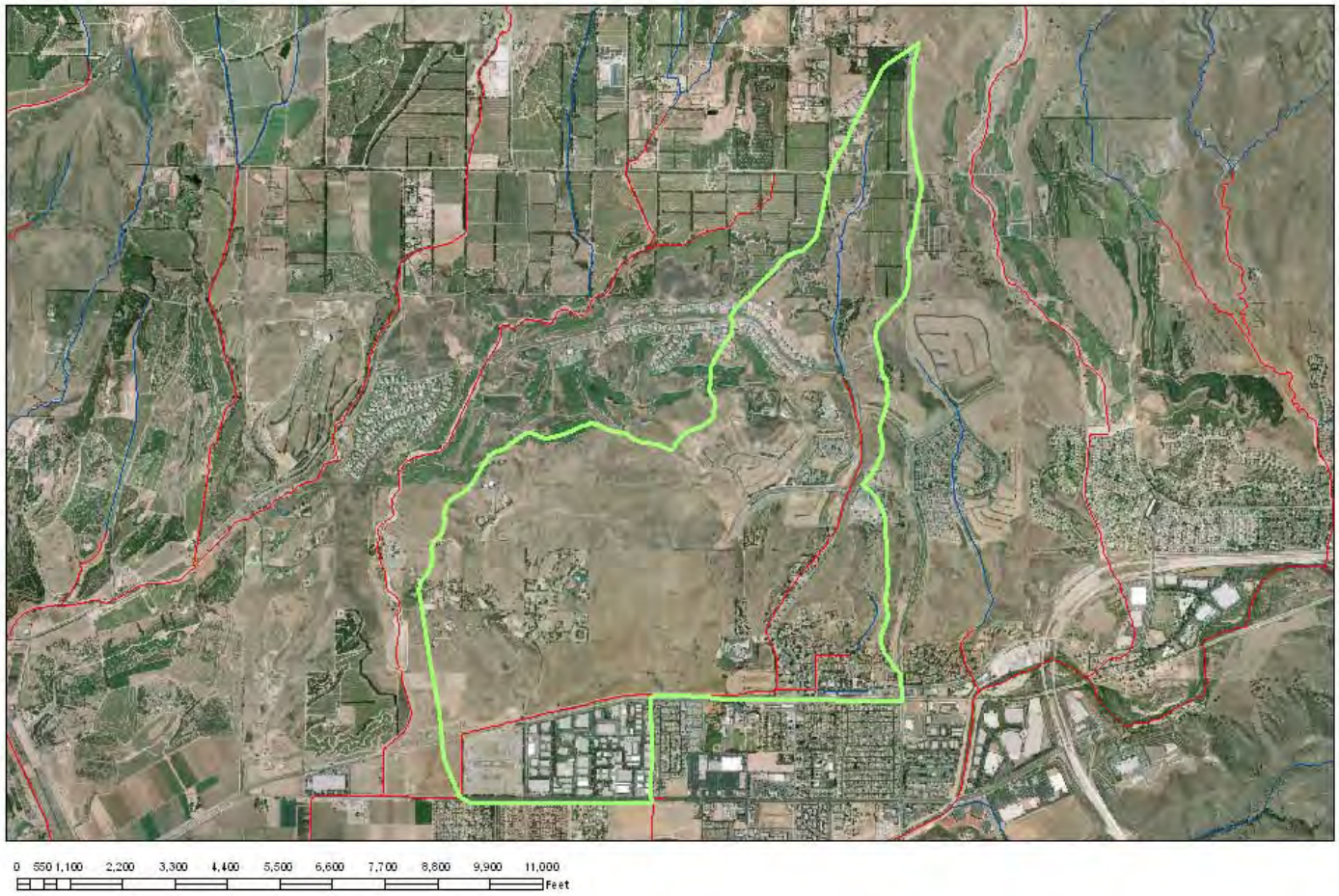


Figure 8

Port Hueneme Watershed

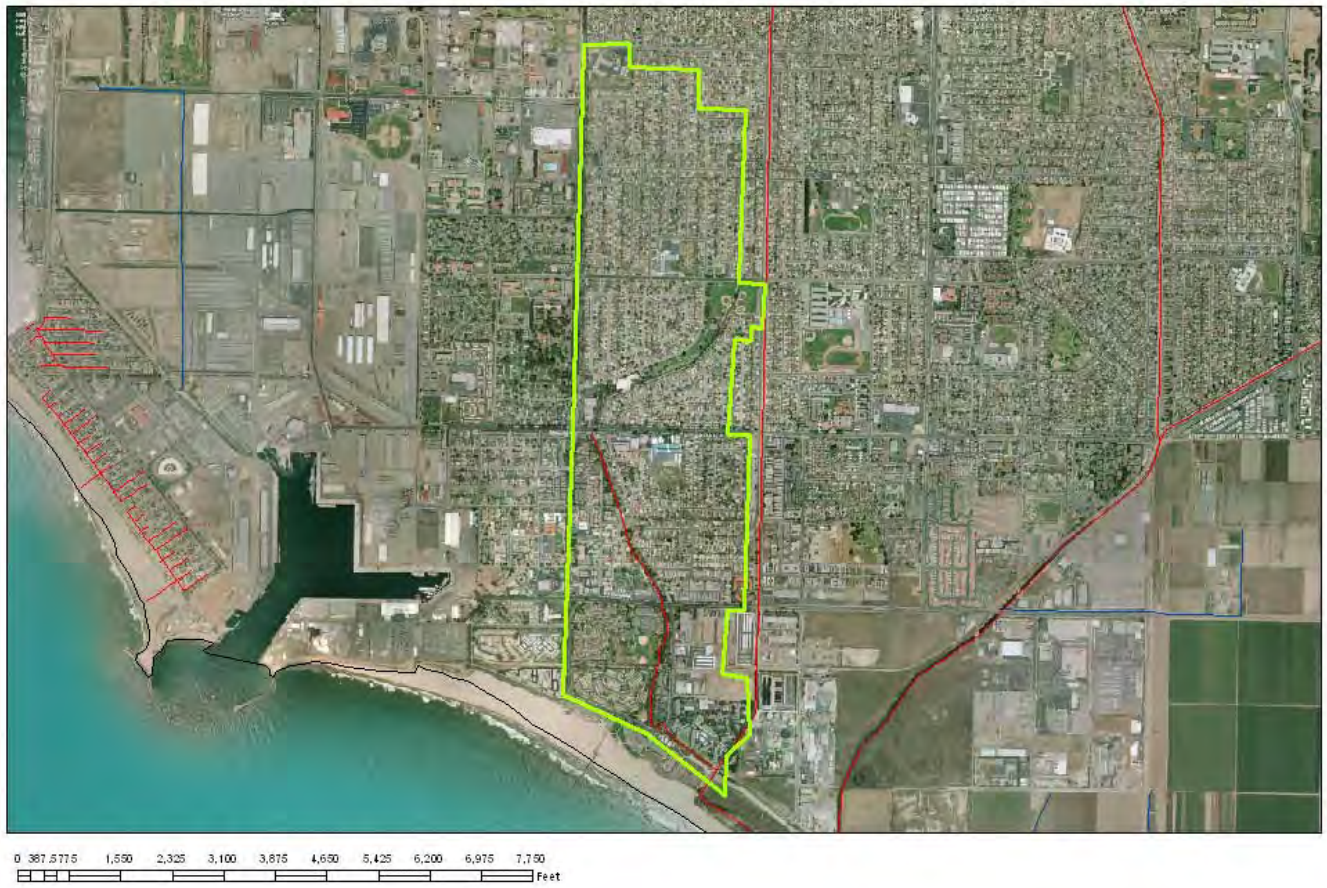


Figure 9

Fillmore Watershed

Figure 10

Thousand Oaks Watershed

Figure 11

Santa Paula Watershed

Figure 12

Appendix D. Event Summaries

NPDES 2010/2011 Water Quality Monitoring Event #1 (Wet), October 6-7, 2010 Summary

Forecasted Rainfall Amounts: 0.25" (coast) to 1.0" (mountains)

Actual Rainfall Amounts: ~0.33" (coast) to 2.0" (mountains)

Sampling Durations:

ME-CC = 16.5 hrs.	ME-SCR = 23.0 hrs.	ME-VR2 = 10.0 hrs.
MO-CAM = 4.5 hrs.	MO-FIL = 24.0 hrs.	MO-HUE = 23.0 hrs.
MO-MEI = 2.0 hrs.	MO-MPK = 4.0 hrs.	MO-OJA = 1.5 hrs.
MO-OXN = 3.5 hrs.	MO-SIM = 7.0 hrs.	MO-SPA = 1.5 hrs.
MO-THO = 1.5 hrs.	MO-VEN = 6.0 hrs.	

Storm Control: Tommy Liddell

Sampling Crew (during storm):

Team One (VR2/OJA/MEI(&MD-1)/VEN): Kelly Hahs and Zoe Carlson
Team Two (CC/SCR/CAM/HUE/OXN): Arne Anselm and David Thomas (VRSD)
Team Three (FIL/SPA/MPK/SIM/THO): Bill Carey and Chris Stephens (VRSD)

Sampling Crew (post storm sample pickup):

Oct. 6: (OJA/MEI/VEN/CAM/OXN): Kelly Hahs and Tommy Liddell
Oct. 7: (VR2/CC/SCR/ FIL/SPA/MPK/SIM/THO/HUE): Kelly Hahs and Bill Carey

NPDES ~ MASS EMISSION

ME-CC Calleguas Creek (CSUCI Bridge)

- **10/05/10 @ 11:15 a.m. PDT**

4230: 10:15 PST, 1.209' [o/s staff 1.21'], 7 cfs
2105c: Set to send pulse every 1,000 cf.
6712: Program flow paced; set pacing to every 500 pulses. Run program: "Program disabled, 10:14:48, 5-OCT." Installed one 18.5 L bottle, lid off.
Notes: Prostar shows battery voltage to be 12.4 V.

- **10/06/10 @ 04:25 a.m. PDT**

4230: 03:25 PST, 1.284' [o/s staff 1.30'], 11 cfs
2105c: Set to send pulse every 1,000 cf.
6712: "Sample 2 after 132 pulses." Bottle volume good.
Grab samples: Taken at check structure @ 04:30 a.m. PDT.

Field Measurements:	Temperature = 18.0° C	pH = 7.68
DO (%) = 64.0	Conductivity = 1270 uS	Salinity = 0.7 ppt
DO(mg/L) = 6.03	Specific Conductance = 1464 uS	

Notes: pH measured at SOY at 06:25 PDT.
4230: 03:47 PST, 1.314' [o/s staff 1.30'], 13 cfs
6712: "Sample 2 after 119 pulses"
Notes: PS-30 12.2V 0.0A 6.3A with 12V

- **10/06/10 @ 05:30 a.m. PDT (storm control)**

2105c: Remotely decreased pacing to 300,000 cf by changing the pulse to 600 cf.

- **10/06/10 @ 05:30 a.m. PDT (storm control)**

2105c: Remotely decreased pacing to 200,000 cf by changing the pulse to 400 cf.

- **10/06/10 @ 14:35 p.m. PDT**

4230: 13:35 PST, 2.651', 327 cfs
6712: "Program: Flow paced is done" Only 16 samples were taken even though programming requested 35 samples. Bottle half full. Restarted program for 19 samples.

❖ **10/07/10 @ 11:12 a.m. PDT**

4230: 10:12 PST, 1.381', 327 cfs
6712: "Program: Flow paced is done" Bottle full to neck.
Composite samples: Pulled at 11:12 a.m. PDT.
Notes: Determined that "countdown continues while disabled" and "max run time of 24 hours" combined to end the program 24 hours after initially run, rather than 24 hours after the sampler was enabled and the first sample was taken.

ME-SCR Santa Clara River (Freeman Diversion)

❖ **10/05/10 @ 9:18 a.m. PDT**

6712: Program time paced. Run program: "Program disabled, 08:17:19 TU 5-OCT." Installed one 18.5 L bottle, lid off.

❖ **10/06/10 @ 05:34 a.m. PDT**

4210: 04:48 a.m. PST, 0.009', 0 cfs
6712: "Sample 5 at 05:50." Bottle volume good.
Grab samples: Taken at @ 05:34 a.m. PDT.

Field Measurements:	Temperature = 16.7° C	pH = 7.91
DO (%) = 84.2	Conductivity = 991 uS	Salinity = 0.6 ppt
DO(mg/L) = 8.30	Specific Conductance = 1179 uS	

❖ **10/07/10 @ 13:00 p.m. PDT**

4210: 13:00 PST
6712: "Program: time paced is done. Errors have occurred during this program." Sample 13 at 10:17 and sample 14 "No liquid detected." Bottle full to shoulder.
Composite samples: Pulled at 13:00 p.m. PDT.

ME-VR2 Ventura River (Ojai Valley Sanitary District)

❖ **10/05/10 @ 12:00 p.m. PDT**

Notes: Forecast 0.50" rain. Pacing targeted 10,000 cf = 10 pulses. Enable remotely set at 2.70' by Storm Control.
4230: 11:00 a.m. PST, 2.542, 8cfs
2105c: Set to send pulse every 1,000 cf.
6712: "Program flow paced: ME-VR2"; 73' suction line, 5' head, flow paced, every 10 pulses, no sample at start, 35 samples, 500 ml samples, repeatable enable, no sample at disable, sample at enable, countdown continues while disable, 0 pause and resumes, no delay to start. Run program: "Program disabled, 11:00, TU 5-OCT." Installed one 18.5 L bottle, lid off, centered.
Notes: Desiccant tube pinched?

❖ **10/06/10 @ 03:40 a.m. PDT (storm control)**

2105c: Remotely changed enable to always

❖ **10/06/10 @ 04:40 a.m. PDT**

4230: 03:38 PST, 2.560', 9 cfs
6712: Watched sample 5 on arrival. "Sample 8 after 5 pulses" when leaving. Bottle volume good.
Grab samples: Taken in river upstream of composite inlet at 05:00 a.m. PDT.
Field Measurements: Temperature = 17.3° C pH = 7.84
DO (%) = 73.9 Conductivity = 845 uS Salinity = 0.5 ppt
DO(mg/L) = 7.10 Specific Conductance = 996 uS

❖ **10/06/10 @ 12:20 p.m. PDT**

4230: 11:20 PST, 2.575', 9 cfs
6712: "Program: Flow paced is done". Bottle full to top.
Composite samples: Pulled at 12:20 p.m. PDT.

NPDES ~ MAJOR OUTFALLS

MO-CAM Camarillo (Camarillo Hills Drain)

❖ **10/05/10 @ 10:00 a.m. PDT**

Notes: Forecast 0.50" rain. Pacing targeted 40,000 cf = 40 pulses.
4230: 0.032', 10 cfs
2105c: Set to send pulse every 1,000 cf.
6712: Pacing set at 40 pulses. Run flow paced program: "Program disabled, 09:11:36, TU 5-OCT." Installed one 18.5 L bottle, lid off.

❖ **10/06/10 @ 02:50 a.m. PDT**

4230: 01:49 PST, 0.205', [o/s 0.20'], 31 cfs
6712: "Sample 6 after 24 pulses". Bottle volume good.
Grab samples: Taken at 02:45 a.m. PDT.
Field Measurements: Temperature = 17.3° C pH = 7.34
DO (%) = NR Conductivity = 141.8 uS Salinity = NR DO(mg/L) = 8.90 Specific Conductance = NR
Notes: PS-30 12.7V 0.0A 2.3A

❖ **10/06/10 @ 03:10 a.m. PDT (storm control)**

2105c: Remotely decreased pacing to 20,000 cf by changing the pulse to 500 cf.

❖ **10/06/10 @ 15:00 p.m. PDT**

4230: 14:00 PST, 0.032', 10 cfs
6712: "Program: Flow paced is done". Bottle full to lower neck.
Composite samples: Pulled at 15:00 p.m. PDT.

MO-FIL Fillmore (North Fillmore Drain)

❖ **10/05/10 @ 14:01 p.m. PDT**

4250: 2.915', 13.56 cfs, 0.31 ft/sec (velocity sensor is in error)
6712: Running "Time Paced" program."Program disabled, 13:03:50, TU 5-OCT." Installed one 18.5 L bottle, lid off.

❖ **10/06/10 @ 03:30 a.m. PDT (storm control)**

2105c: Remotely enabled.

❖ **10/06/10 @ 07:00 a.m. PDT**

4250: Time NR, 3.83', 0.45 ft/sec, 25.85 cfs (rating is in error)
6712: "Sample 7 in 00:27:30"
Grab samples: Taken at 07:00 a.m. PDT.

Field Measurements:	Temperature = 17.4° C	pH = 7.85
DO (%) = 73.1	Conductivity = 145.7 uS	Salinity = 0.1 ppt
DO(mg/L) = 7.01	Specific Conductance = 171.6 uS	

Notes: Battery = 12.8 volts

❖ **10/07/10 @ 09:05 a.m. PDT**

4250: 08:04 PST, 3.210', 5.30 cfs (rating is in error)
6712: "Program: time paced is done". Bottle full past shoulder.
Composite samples: Pulled at 09:05 a.m. PDT.

MO-MEI Meiners Oaks (Happy Valley Drain)

❖ **10/05/10 @ 10:00 a.m. PDT**

Notes: Forecast 0.33" rain. Pacing targeted 2,000 cf = 2 pulses. Enable at 0.15'.
4230: 0.080', 1 cfs
2105c: Set to send pulse every 1,000 cf.
6712: "Program flow paced" Flow paced, every 2 pulses, no sample at start, 35 samples, 500 ml/sample, repeatable enable, no sample at disable, sample at enable, countdown continues while disabled, 0 pause and resumes, no delay to start, 36 hour run time. Run Program. "Program disabled, 10:03, TU 5-OCT." Installed one 18.5 L bottle, lid off (lid with hole and latex glove to ensure pump tubing stays in bottle), installed bottle centering base.
Notes: PS-30 13.0V 1.7A 3.0A

❖ **10/06/10 @ 06:05 a.m. PDT**

4230: 05:05 PST, 0.152', 5 cfs
6712: "Sample 5 after 2 pulses". Bottle volume good.
Grab samples: Taken at 06:30 a.m. PDT. MD-1 taken at 06:30 a.m. PDT.

Field Measurements:	Temperature = 16.3° C	pH = 7.70
DO (%) = 88.9	Conductivity = 141.3 uS	Salinity = 0.1 ppt
DO(mg/L) = 8.62	Specific Conductance = 169.0 uS	

4230: 06:01 PST, 0.302', 17 cfs
6712: "Sample 13 after 1 pulses". Bottle volume good.

❖ **10/06/10 @ 06:35 a.m. PDT (storm control)**

2105c: Noticed irregular sample punches and untaken samples. Checked programming which had defaulted to never, 0 gallons. Related to Flow Link and/or modem crash? Reprogrammed.

❖ **10/06/10 @ 12:48 p.m. PDT**

4230: 11:48 PST, 0.080', 1 cfs
6712: "Program: Flow paced is done". Bottle ~ 8L.
Composite samples: Pulled at 12:48 p.m. PDT.

MO-MPK Moorpark (Gabbert Canyon Drain)

❖ **10/05/10 @ 12:35 p.m. PDT**

Notes: Forecast 0.4" rain. Pacing targeted 10,000 cf = 10 pulses. Enable at 0.15'.
4230: 11:35 PST, 0.075', 0.2 cfs
2105c: Set to send pulse every 1,000 cf.
6712: "Program flow paced" Flow paced, 1, 18.5 liter bottle, every 10 pulses, no sample at start, 35 samples, 500 ml/sample, Enable: none programmed, repeatable enable, no sample at disable, sample at enable, countdown continues while disabled, 0 pause and resumes, no delay to start, 24 hour run time. Run Program. "Program disabled." Installed one 18.5 L bottle, lid off, fridge at 4° C.

❖ **10/06/10 @ 04:16 a.m. PDT**

4230: 03:16 PST, 0.188' [o/s ~0.20'], 2.9 cfs
6712: "Sample 6 after 6 pulses". Installed bottle centering device.
Grab samples: Taken at 04:30 a.m. PDT.
Field Measurements: Temperature = 16.2° C pH = 7.19
DO (%) = 88.1 Conductivity = 98.5 uS Salinity = 0.1 ppt
DO(mg/L) = 8.70 Specific Conductance = 121.5 uS
4230: 0.277', 6.3 cfs
6712: "Sample 8 after 6 pulses".
Notes: Battery = 12.8 volts.

❖ **10/06/10 @ 03:10 a.m. PDT (storm control)**

2105c: Inadequate number of samples due to dearth of rainfall. Changed pacing to 2,500 cf by changing pulsing to 250 cf.

❖ **10/07/10 @ 09:35 a.m. PDT**

4230: 08:35 PST, 0.073', 0.2 cfs
6712: "Program: Flow paced is done". Bottle full to neck.
Composite samples: Pulled at 09:35 a.m. PDT.

MO-OJA Ojai (Fox Canyon Barranca)

❖ **10/05/10 @ 10:06 a.m. PDT**

Notes: Forecast 0.33" rain. Pacing 2,000 cf = 2 pulses. Enable at 0.06', changed by storm control to 0.15'.
4230: 0.014', 0 cfs
2105c: Set to send pulse every 1,000 cf. Storm control changed enable to 0.15'
6712: "Program flow paced" Flow paced, 1, 18.5 liter bottle, every 2 pulses, no sample at start, 35 samples, 500 ml/sample, Enable: none programmed, repeatable enable, no sample at disable, sample at enable, countdown continues while disabled, 0 pause and resumes, no delay to start, 36 hour run time. Run Program. "Program disabled, 09:06 TU 5-Oct." Installed one 18.5 L bottle, lid off, fridge at 4° C.
4230: 0.027', 1 cfs

❖ **10/06/10 @ 07:40 a.m. PDT**

4230: 06:47 PST, 0.072', 4 cfs
6712: "Program flow paced is done". Bottle full to shoulder.
Grab samples: Taken at 07:40 a.m. PDT.
Field Measurements: Temperature = 15.6° C pH = 7.69

DO (%) = 92.3 Conductivity = 91.8 uS Salinity = 0.1 ppt
DO(mg/L) = 9.17 Specific Conductance = 121.4 uS

❖ **10/06/10 @ 09:35 a.m. PDT**

4230: 12:23 PST, 0.028', 1 cfs
6712: "Program: Flow paced is done". Bottle full to shoulder.
Composite samples: Pulled at 12:30 p.m. PDT.

MO-OXN Oxnard (El Rio Drain)

❖ **10/05/10 @ 13:18 p.m. PDT**

Notes: Forecast 0.50" rain. Pacing targeted 10,000 cf = 10 pulses. Enable at 0.16'.
4230: 0.108', 0.2 cfs
2105c: Set to send pulse every 1,000 cf.
6712: "Program flow paced" Flow paced, 1, 18.5 liter bottle, every 10 pulses, no sample at start, 35 samples, 500 ml/sample, Enable: none programmed, repeatable enable, no sample at disable, sample at enable, countdown continues while disabled, 0 pause and resumes, no delay to start, 24 hour run time. Run Program. "Program disabled, 12:18 TU 5-Oct." Installed one 18.5 L bottle, lid off.

❖ **10/06/10 @ 02:15 a.m. PDT**

4230: 01:18 PST, 1.059' [o/s 1.05], 0.95' [o/s 0.95]
6712: "Sample 15 after 7 pulses". Bottle ~ 8L.
Grab samples: Taken at 02:15 a.m. PDT.
Field Measurements: Temperature = 17.5° C pH = 6.58
DO (%) = 93.0 Conductivity = 124.1 uS Salinity = 0.1 ppt
DO(mg/L) = 8.77 Specific Conductance = 144.7 uS
Notes: PS-30 12.8V 0.0A 0.0A

❖ **10/06/10 @ 13:36 p.m. PDT**

4230: 12:36 PST, 1.066', 25.8 cfs (Note: 4230 ~ 12:32 PST, 1.084' [o/s 1.08'])
6712: "Program: Flow paced is done". Bottle full to neck.
Composite samples: Pulled at 13:40 p.m. PDT.

MO-HUE Port Hueneme (Hueneme Drain)

❖ **10/05/10 @ 14:00 p.m. PDT**

Notes: Forecast 0.50" rain.
6712: "Program time paced" Time paced, 1, 18.5 liter bottle, 41 minutes, 35 samples, 500 ml/sample, Enable: once enabled stay enabled, sample at enable, 0 pause and resumes, no delay to start. Run Program. "Program disabled, 13:04 TU 5-Oct." Installed one 18.5 L bottle, lid off, centered.

❖ **10/06/10 @ 00:40 a.m. PDT (storm control)**

2105c: Manually enabled sampling program based on 0.21" rainfall.

❖ **10/06/10 @ 03:35 a.m. PDT**

6712: "Sample 6". Bottle volume looks good.
Grab samples: Taken at 03:35 a.m. PDT.
Field Measurements: Temperature = 15.9° C pH = 8.02

DO (%) = 50.0 Conductivity = 850 uS Salinity = 0.5 ppt
DO(mg/L) = 4.91 Specific Conductance = 1029 uS

❖ **10/06/10 @ 11:40 a.m. PDT**

6712: "Program: time paced is done". Bottle full to shoulder.
Composite samples: Pulled at 11:40 p.m. PDT.

MO-SIM Simi Valley (Bus Canyon Drain)

❖ **10/05/10 @ 11:43 a.m. PDT**

Notes: Forecast 0.4" rain. Pacing targeted 20,000 cf = 20 pulses.
4230: 10:44 PST, 0.094', 0 cfs
2105c: Set to send pulse every 1,000 cf.
6712: "Program flow paced" Flow paced, 1, 18.5 liter bottle, every 20 pulses, no sample at start, 35 samples, 500 ml/sample, Enable: none programmed, repeatable enable, no sample at disable, sample at enable, countdown continues while disabled, 0 pause and resumes, no delay to start, 24 hour run time. Run Program. "Program disabled". Installed one 18.5 L bottle, lid off, fridge at 4° C.

❖ **10/06/10 @ 05:45 a.m. PDT**

4230: 0.389' [o/s 0.40], 20 cfs
6712: "Sample 6 after 4 pulses". Installed bottle centering device.
Grab samples: Taken at 05:45 a.m. PDT
Field Measurements: Temperature = 16.3° C pH = 7.20
DO (%) = 83.1 Conductivity = 185 uS Salinity = 0.1 ppt
DO(mg/L) = 8.00 Specific Conductance = 223 uS
Notes: Battery = 12.5 volts.

❖ **10/07/10 @ 10:00 a.m. PDT**

4230: 09:00 PST, 0.080', 0 cfs
6712: "Program: Flow paced is done". Bottle ~ 2/3 full.
Composite samples: Pulled at 10:00 a.m. PDT.
Notes: Program self-terminated prematurely. Determined that "countdown continues while disabled" and "max run time of 24 hours" combined to end the program 24 hours after initially run, rather than 24 hours after the sampler was enabled and the first sample was taken.

MO-SPA Santa Paula (11th Street Drain)

❖ **10/05/10 @ 14:39 p.m. PDT**

Notes: Forecast 0.4" rain. Pacing targeted 2,000 cf = 2 pulses.
4230: 0.02', 0.00 cfs, 0.05 ft/sec,
2105c: Set to send pulse every 1,000 cf.
6712: "Program flow paced", pacing = 2,000 cf so programmed to sample every 2 pulses. Run program. "Program disabled, 13:41:51 TU 5-Oct." Installed one 18.5 L bottle, lid off.

❖ **10/06/10 @ 04:10 a.m. PDT (storm control)**

Notes: Program is done. May need to adjust pacing upwards, but watershed got a lot more rain than expected (0.75").

❖ **10/06/10 @ 08:00 a.m. PDT**

4230: 07:00 PST, 0.311', 2.67 cfs, 5.72 ft/sec
6712: "Program flow paced is done".
Grab samples: Taken at 08:00 a.m. PDT.

Field Measurements:	Temperature = 16.1° C	pH = 7.41
DO (%) = 92.1	Conductivity = 68.7 uS	Salinity = 0.0 ppt
DO(mg/L) = 9.08	Specific Conductance = 83.0 uS	

Notes: Battery = 12.5 volts

❖ **10/07/10 @ 08:40 a.m. PDT**

4230: 07:40 PST, 0.058', 0.01 cfs
6712: "Program: Flow paced is done". Bottle full past shoulder.
Composite samples: Pulled at 08:40 a.m. PDT.

MO-THO Thousand Oaks (Hill Canyon WWTP)

❖ **10/05/10 @ 12:22 p.m. PDT**

Notes: Forecast 0.4" rain. Pacing targeted 15,000 cf = 1 pulse.
4230: 2.128', 1 cfs. Pacing set at 15,000 cf. Threshold for enable set to 2.50'.
2105c: No 2105c at this site.
6712: "Program flow paced", pacing = 15,000 cf so programmed to sample every 1 pulse. Run program. "Program disabled, 11:26:45 TU 5-Oct." Installed one 18.5 L bottle, lid off.

❖ **10/06/10 @ 03:16 a.m. PDT**

4230: 02:16 PST, 3.439', 63 cfs (02:40 PST, 3.691', 76 cfs)
Notes: O/s taken between 02:16 PST and 02:40 PST = ~3.5'
6712: On arrival "Sample 8 after 1 pulses", at departure "Sample 14 after 1 pulses."
Grab samples: Taken at 03:16 a.m. PDT.

Field Measurements:	Temperature = 16.2° C	pH = 8.07
DO (%) = 86.1	Conductivity = 309 uS	Salinity = 0.2 ppt
DO(mg/L) = 8.45	Specific Conductance = 376 uS	

❖ **10/07/10 @ 10:30 a.m. PDT**

4230: 09:30 PST, 2.178', 1 cfs
6712: "Program: Flow paced is done". Bottle full to neck.
Composite samples: Pulled at 10:30 a.m. PDT.
Notes: High water mark ± 5.5' o/s

MO-VEN Ventura (Moon Ditch)

❖ **10/05/10 @ 12:22 p.m. PDT**

Notes: Forecast 0.50" rain. Pacing targeted 25,000 cf = 25 pulses. Enable at 0.18'.
4230: 0.047', 1 cfs
2105c: Set to send pulse every 1,000 cf.
6712: "Program flow paced" Flow paced, 1, 18.5 liter bottle, every 25 pulses, no sample at start, 35 samples, 500 ml/sample, Enable: none programmed, repeatable enable, no sample at disable, sample at enable, countdown continues while disabled, 0 pause and

resumes, no delay to start, 24 hour run time. Run Program. “Program disabled, 11:50 TU 5-Oct”. Installed one 18.5 L bottle, lid off.

❖ **10/06/10 @ 01:50 a.m. PDT (storm control)**

2105c: Sampler not pacing correctly. Remotely connected to 2105c and found that 1,000 cf pacing had been scrambled. Corrected problem but no resolution.

❖ **10/06/10 @ 02:30 a.m. PDT**

4230: 01:31 PST, 0.333’, 15 cfs (02:46 PST, 0.865’, 74 cfs)
6712: Program disabled on arrival but one sample collected in bottle. Storm control remotely triggered collection of sample 2 while team on site. “Sample 3 after 6 pulses” after sample taken. “Sample 12 after 21 pulses” at 02:46 PST, when team leaving site.
Grab samples: Taken at 03:10 a.m. PDT.

Field Measurements:	Temperature = 16.6° C	pH = 7.39
DO (%) = 90.1	Conductivity = 205.3 uS	Salinity = 0.1 ppt
DO(mg/L) = 8.75	Specific Conductance = 244.3 uS	

❖ **10/06/10 @ 03:15 a.m. PDT (storm control)**

2105c: Adjust pacing down to 10,000 cf by changing pulsing to 400 cf.

❖ **10/06/10 @ 13:23 p.m. PDT**

4230: 12:24 PST, 0.286’, 12 cfs
6712: “Program: Flow paced is done – errors have occurred during program”. Bottle full to shoulder. Fridge at 17° C
Composite samples: Pulled at 13:25 p.m. PDT.

Sample Tracking

❖ Bacteria samples to VCHCA (Susan Benavides):

10/06/10 @ 09:00 PDT: VR2/OJA/MEI(&MD-1)/VEN: Kelly Hahs and Zoe Carlson
10/06/10 @ 06:50 PDT: CC/SCR/CAM/HUE/OXN: Arne Anselm and David Thomas (VRSD)
10/06/10 @ 08:48 PDT: FIL/SPA/MPK/SIM/THO: Bill Carey and Chris Stephens (VRSD)

❖ Toxicity samples to Aquatic Bioassay & Consulting Laboratories, Inc.:

10/06/10 @ 08:30 PDT (to Joe Freas): VR2/OJA/MEI(&MD-1)/VEN by Kelly Hahs and Zoe Carlson
10/06/10 @ 07:15 PDT (to Noel De Gogus (sp?)): CC/SCR/CAM/HUE/OXN by Arne Anselm and David Thomas (VRSD)
10/06/10 @ 09:25 PDT (to Elizabeth Maturino): FIL/SPA/MPK/SIM/THO by Bill Carey and Chris Stephens (VRSD)

❖ Grab and composite samples to Weck Laboratories, Inc. by Weck-provided courier (RMS) from Saticoy Operations Yard:

10/06/10 @ 15:30 PDT (to Amir Levy): All grab samples and composites from OJA/MEI(&MD-1)/VEN/OXN by Kelly Hahs and Tommy Liddell

❖ Remaining composite samples to Weck Laboratories, Inc. by Weck-provided courier (RMS) from Saticoy Operations Yard:

10/07/10 @ 15:05 PDT (to Brandon Ramirez):
CC/SCR/CAM/HUE/VR2/FIL/SPA/MPK/SIM/THO by Kelly Hahs and Bill Carey.

Program Notes

The settings “countdown continues while disabled” and “max run time of 24 hours” combine to end the program 24 hours after initially run, rather than 24 hours after the sampler is enabled and the first sample taken. All samplers will be reprogrammed to maintain the 24 hours max run time, but the countdown setting will be changed to “countdown is stopped while disabled.”

NPDES 2010/2011 Water Quality Monitoring
Event #2 (Wet), October 30-31, 2010 Summary

Forecasted Rainfall Amounts: 0.25" to 0.67 (coast) to near 1.0" (mountains)

Actual Rainfall Amounts: 0.9" (coast) to 0.5" (mountains)

Sampling Durations (to nearest 0.5 hours):

ME-CC = 7.5 hrs.	ME-SCR = 23.0 hrs.	ME-VR2 = 3.5 hrs.
MO-CAM = 1.0 hrs.	MO-FIL = 12.0 hrs.	MO-HUE = 12.0 hrs.
MO-MEI = Void.	MO-MPK = 1.5 hrs.	MO-OJA = Void.
MO-OXN = 0.5 hrs.	MO-SIM = 1.0 hrs.	MO-SPA = 1.5 hrs.
MO-THO = 1.0 hrs.	MO-VEN = 0.5 hrs.	

Storm Control: Tommy Liddell

Sampling Crew (during storm):
Team One (VR2/OJA/MEI/SCR/HUE): Kelly Hahs and Chris Stephens (VRSD)
Team Two (CC/CAM/OXN/THO): Arne Anselm and David Thomas (VRSD)
Team Three (VEN/FIL/SPA/MPK/SIM: Bill Carey and Dave Panaro (VCWPD)

Sampling Crew (post storm sample pickup):
Oct. 30: (VR2/SPA/MPK/SIM/THO/CAM/OXN/VEN): Kelly Hahs and Dave Panaro
Oct. 31: (FIL/HUE/CC/SCR): Kelly Hahs (&Tommy Liddell at SCR)
Nov. 1: (OJA/MEI): Kelly Hahs (void sample, collected bottles for cleaning)

NPDES ~ MASS EMISSION

ME-CC Calleguas Creek (CSUCI Bridge)

- **10/29/10 @ 13:25 p.m. PDT**

0.25" forecast, 200,000 cf pacing
4230: 12:25 PST, 1.196' [o/s staff not checked'], 6 cfs
2105c: Set to send pulse every 1,000 cf.
6712: Program flow paced; set pacing to every 200 pulses. Run program: "PROGRAM DISABLED 12:28:51 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off, fridge turned to coldest setting.
Battery: 12.9 V.

- **10/30/10 @ 05:35 a.m. PDT**

4230: 04:35 PST, 1.567' [o/s staff 1.5'], 41 cfs
2105c: Set to send pulse every 1,000 cf.
6712: "SAMPLE 3 AFTER 173 PULSES." Bottle ~ 1.5 L. Changed pulses to 75 for decreased 75,000 cf pacing.

Grab samples: Taken at check structure @ 05:45 a.m. PDT.

Field Measurements:	Temperature = 14.3° C	pH = 7.89
DO (%) = 89.3	Conductivity = 311.7 uS	Salinity = 0.2 ppt
DO(mg/L) = 9.25	Specific Conductance = 382.0 uS	

- **10/31/10 @ 09:40 a.m. PDT**

4230: 08:40 PST, 1.317', 13 cfs
6712: "PROGRAM: FLOW PACED IS DONE."

Composite samples: Pulled at 09:40 a.m. PDT. Bottle full to neck.

NPDES 2010/2011 Event #2 (Wet)

ME-SCR Santa Clara River (Freeman Diversion)

❖ 10/29/10 @ 11:50 a.m. PDT

0.25" forecast, time pacing.
674: Cleaned rain gauge.
6712: Program time paced. Run program: "PROGRAM DISABLED 10:51:45 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off. Turned fridge to 4° C.

❖ 10/30/10 @ 05:11 a.m. PDT

4210: 04:11 a.m. PST, 0.004', 0 cfs
6712: Program still disabled. Unplugged 2105c to manually enable. Watched Sample 1, volume good "SAMPLE 2 IN 00:37:01."
Grab samples: Taken at @ 05:30 a.m. PDT.

Field Measurements:	Temperature = 15.4° C	pH = 8.21 (twice)
DO (%) = 81.4	Conductivity = 977 uS	Salinity = 0.6 ppt
DO(mg/L) = 8.24	Specific Conductance = 1197 uS	

❖ 10/31/10 @ 10:25 a.m. PDT

4210: 09:22 PST, 0.015', 0 cfs
6712: "PROGRAM: TIME PACED IS DONE."
Composite samples: Pulled at 10:25 a.m. PDT. Bottle full to shoulder.

ME-VR2 Ventura River (Ojai Valley Sanitary District)

❖ 10/29/10 @ 10:00 a.m. PDT

Notes: Switched to intake line attached to rebar (from intake at wing wall). Calibrated and cleaned with distilled water.
Forecast 0.25-0.50" rain. Pacing targeted 5,000 cf = 5 pulses. Enable remotely set at 2.60' by WBC on 10/28/10.
4230: 08:53 a.m. PST, 2.500, 6cfs
2105c: Set to send pulse every 1,000 cf.
6712: Program flow paced; set pacing to every 5 pulses. Run program: "PROGRAM DISABLED 08:49:56 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off, fridge turned to 4° C.

❖ 10/30/10 @ 04:20 a.m. PDT

4230: 03:10 PST, 2.678', 14 cfs
6712: "SAMPLE 20 AFTER 2 PULSES." Bottle ~ half full, volume good.
Grab samples: Taken in river upstream of composite inlet at 04:20 a.m. PDT.

Field Measurements:	Temperature = 14.8° C	pH = 7.89
DO (%) = 81.1	Conductivity = ~700 uS*	Salinity = 0.5 ppt
DO(mg/L) = 8.18	Specific Conductance = ~900 uS*****	

***** Sampler was inadvertently switched to mS and measured 0.7 mS and 0.9 mS.

❖ 10/30/10 @ 08:58 a.m. PDT

4230: 07:58 PST, 2.569', 9 cfs
6712: "PROGRAM: FLOW PACED IS DONE".
Composite samples: Pulled at 09:00 a.m. PDT. Bottle full to neck.

NPDES 2010/2011 Event #2 (Wet)

NPDES ~ MAJOR OUTFALLS

MO-CAM Camarillo (Camarillo Hills Drain)

❖ **10/29/10 @ 12:45 p.m. PDT**

Forecast 0.25" rain. Pacing targeted 10,000 cf = 10 pulses.
4230: 11:47 PST 0.029', 0 cfs
2105c: Set to send pulse every 1,000 cf.
674: Cleaned rain gauge.
6712: Program flow paced; set pacing to every 10 pulses. Run program: "PROGRAM DISABLED 08:49:56 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off, fridge turned to coldest setting.
Battery: 13.6 V.

❖ **10/30/10 @ 04:15 a.m. PDT**

4230: 03:14 PST, 0.380', [o/s 00.40'], 58 cfs
6712: "PROGRAM: FLOW PACED IS DONE". Bottle volume good.
Grab samples: Taken at 04:20 a.m. PDT.

Field Measurements:	Temperature = 14.7° C	pH = 8.8
DO (%) = 103.3	Conductivity = 84.0 uS	Salinity = 0.1 ppt
DO(mg/L) = 10.50	Specific Conductance = 104.1 uS	

❖ **10/30/10 @ 11:45 a.m. PDT**

4230: 10:44 PST, 0.029', 0 cfs
6712: "PROGRAM: FLOW PACED IS DONE."
Composite samples: Pulled at 11:45 a.m. PDT. Bottle full to neck.

MO-FIL Fillmore (North Fillmore Drain)

❖ **10/29/10 @ 09:00 a.m. PDT**

0.25" forecast, time-paced samples (12 hour program, 21 min samples). Needs manual enable.
4250: 08:02 PST, 3.862', 12.16 cfs
6712: Program time paced. Run program: "PROGRAM DISABLED 08:14:36 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off. Turned fridge to coldest setting.

❖ **10/30/10 @ 03:10 a.m. PDT (storm control)**

2105c: Remotely enabled.

❖ **10/30/10 @ 05:30 a.m. PDT**

4250: 04:31 PST, 3.739', 2.80 cfs
6712: "SAMPLE 8 IN 00:01:32."
Battery: 12.5 volts
Grab samples: Taken at 05:30 a.m. PDT.

Field Measurements:	Temperature = 15.3° C	pH = 7.55
DO (%) = 85.1	Conductivity = 12.9 uS	Salinity = 0.0 ppt
DO(mg/L) = 8.47	Specific Conductance = 16.2 uS	

❖ **10/31/10 @ 08:15 a.m. PDT**

4250: 07:15 PST, 2.942', 3.97 cfs
6712: "PROGRAM: TIME PACED IS DONE."

NPDES 2010/2011 Event #2 (Wet)

Composite samples: Pulled at 08:15 a.m. PDT. Bottle full to neck.

MO-MEI Meiners Oaks (Happy Valley Drain)

❖ **10/28/10 @ 13:23 p.m. PDT**

0.50" forecast. Pacing targeted 2,000 cf = 2 pulses.
4230: 12:21 PST, 0.079', 1 cfs
2105c: Set to send pulse every 1,000 cf.
6712: Program flow paced; set pacing to every 2 pulses. Program not run. Put one 18.5 L bottle (labeled) in house but not in fridge. Fridge turned down.

❖ **10/29/10 @ 17:53 p.m. PDT**

4230: 16:53 PST, 0.079', 1 cfs
6712: Run program. "PROGRAM DISABLED 16:53:11 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off. No guide cap or distributor arm so tubing secured to bottle with zip ties.

❖ **10/30/10 @ 03:15 a.m. PDT**

4230: 02:33 PST, 0.148', 4 cfs
6712: "PROGRAM DISABLED" insufficient flow to enable.
Grab samples: Taken at 03:15 a.m. PDT. MD-1 taken at 03:15 a.m. PDT.

Field Measurements:	Temperature = 14.7° C	pH = 7.68
DO (%) = 91.7	Conductivity = 119.4 uS	Salinity = 0.1 ppt
DO(mg/L) = 9.31	Specific Conductance = 148.7 uS	

❖ **10/30/10 @ 03:45 a.m. PDT (storm control)**

2105c: Rain ending and sampler, according to KH, just kicked on. Adjusted pacing to 500 cf by decreasing pulsing to 250 cf.

❖ **10/30/10 @ 08:00 a.m. PDT**

Notes: FAILED EVENT – rain is over and flow was only high enough to take 3 samples.

MO-MPK Moorpark (Gabbert Canyon Drain)

❖ **10/29/10 @ 09:50 a.m. PDT**

0.50" forecast. Pacing targeted 1,000 cf = 1 pulse.
4230: 08:49 PST, 0.083', 0.3 cfs
2105c: Set to send pulse every 1,000 cf.
6712: Program flow paced; set pacing to every 1 pulse. Run program: "PROGRAM DISABLED 08:58:34 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off, fridge turned down.
Battery: 14.0 V

❖ **10/30/10 @ 07:17 a.m. PDT**

4230: 06:18 PST, 0.095', 0.5 cfs
6712: "PROGRAM: FLOW PACED IS DONE".
Grab samples: Taken at 07:17 a.m. PDT.

Field Measurements:	Temperature = 13.3° C	pH = 8.08
DO (%) = 93.4	Conductivity = 11.0 uS	Salinity = 0.0 ppt
DO(mg/L) = 9.70	Specific Conductance = 13.8 uS	

Battery: 12.8 V.

❖ **10/30/10 @ 10:16 a.m. PDT**

4230: 09:16 PST, 0.083', 0.3 cfs
6712: "PROGRAM: FLOW PACED IS DONE."
Composite samples: Pulled at 10:15 a.m. PDT. Bottle full to neck.

MO-OJA Ojai (Fox Canyon Barranca)

❖ **10/28/10 @ 11:11 a.m. PDT**

0.50" forecast. Pacing targeted 3,000 cf = 3 pulses.
4230: 10:24 PST, 0.053', 3 cfs
2105c: Set to send pulse every 1,000 cf.
6712: Program flow paced; set pacing to every 3 pulses. Program not run. Put one 18.5 L bottle (labeled) in house but not in fridge. Fridge turned to 4° C.

❖ **10/29/10 @ 17:37 p.m. PDT**

4230: 16:35 PST, 0.027', 1 cfs
6712: Run program. "PROGRAM DISABLED 16:36:41 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off.
Battery: Full.

❖ **10/30/10 @ 02:45 a.m. PDT**

4230: 01:53 PST, 0.102', 5 cfs
6712: "PROGRAM DISABLED" insufficient flow to enable.
Grab samples: Taken at 02:45 a.m. PDT.

Field Measurements:	Temperature = 14.8° C	pH = 7.75
DO (%) = 88.9	Conductivity = 147.3 uS	Salinity = 0.1 ppt
DO(mg/L) = 9.00	Specific Conductance = 183.0 uS	

❖ **10/30/10 @ 03:55 a.m. PDT (storm control)**

2105c: Rain ending and sampler, according to KH, just kicked on. Adjusted pacing to 500 cf by decreasing pulsing to 250 cf. Rain ending and only 7 samples in bottle. Tried to decrease pacing to 600 cf by decreasing pulsing to 200 cf, but could not connect to site remotely.

❖ **10/30/10 @ 08:00 a.m. PDT**

Notes: FAILED EVENT – rain is over and flow was only high enough to take 7 samples.

MO-OXN Oxnard (El Rio Drain)

❖ **10/29/10 @ 12:26 p.m. PDT**

0.25" forecast. Pacing targeted 2,000 cf = 2 pulses.
4230: 11:27, 0.108', 0.2 cfs
2105c: Set to send pulse every 1,000 cf.
6712: Program flow paced; set pacing to every 2 pulses. Run program: "PROGRAM DISABLED 11:41:24 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off, fridge at 2° C.

❖ **10/30/10 @ 03:20 a.m. PDT**

4230: 02:18 PST, 3.183', 192.5 cfs

6712: "PROGRAM: FLOW PACED IS DONE."
Grab samples: Taken at 03:20 a.m. PDT.
Field Measurements: Temperature = 13.9° C pH = 7.44
DO (%) = 103.3 Conductivity = 37.0 uS Salinity = 0.0 ppt
DO(mg/L) = 10.79 Specific Conductance = 46.9 uS
Battery: 12.7 V.

❖ **10/30/10 @ 12:10 p.m. PDT**

4230: 11:09 PST, 0.108', 0.2 cfs
6712: "PROGRAM: FLOW PACED IS DONE."
Composite samples: Pulled at 12:10 p.m. PDT. Bottle full to neck.

MO-HUE Port Hueneme (Hueneme Drain)

❖ **10/29/10 @ 14:00 p.m. PDT**

0.25" forecast, time-paced samples (12 hour program, 21 min samples). Needs manual enable.
6712: Program time paced. Run program: "PROGRAM DISABLED 13:13:03 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off. Fridge turned to 4° C.

❖ **10/30/10 @ 02:45 a.m. PDT (storm control)**

2105c: Remotely enabled after 0.37" rainfall.

❖ **10/30/10 @ 06:30 a.m. PDT**

6712: "SAMPLE 12 IN 00:07:21." Volume good, ~ 5L.
Grab samples: Taken at 06:40 a.m. PDT.
Field Measurements: Temperature = 14.7° C pH = 8.26 (8.27)
DO (%) = 47.1 Conductivity = 471 uS Salinity = 0.3 ppt
DO(mg/L) = 4.77 Specific Conductance = 588 uS

❖ **10/31/10 @ 09:10 a.m. PDT**

6712: "PROGRAM: TIME PACED IS DONE."
Composite samples: Pulled at 09:10 a.m. PDT. Bottle full to shoulder.

MO-SIM Simi Valley (Bus Canyon Drain)

❖ **10/29/10 @ 10:25 a.m. PDT**

0.25" forecast. Pacing targeted 8,000 cf = 8 pulses.
4230: 09:25 PST, 0.132', 1 cfs
2105c: Set to send pulse every 1,000 cf.
6712: Program flow paced; set pacing to every 8 pulses. Run program: "PROGRAM DISABLED 09:34:22 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off, fridge at 5° C, turned fridge colder.
Battery: 13.5 V.

❖ **10/30/10 @ 06:31 a.m. PDT**

4230: 05:32 PST, 0.213', 5 cfs
6712: "PROGRAM: FLOW PACED IS DONE."
Grab samples: Taken at 06:31 a.m. PDT
Field Measurements: Temperature = 15.7° C pH = 7.60

DO (%) = 86.8 Conductivity = 183.0 uS Salinity = 0.1 ppt
DO(mg/L) = 8.57 Specific Conductance = 221.1 uS
Notes: Battery = 12.5 volts.

❖ **10/30/10 @ 10:40 a.m. PDT**

4230: 09:39 PST, 0.147', 2 cfs
6712: "PROGRAM: FLOW PACED IS DONE."
Composite samples: Pulled at 10:40 a.m. PDT.

MO-SPA Santa Paula (11th Street Drain)

❖ **10/2910 @ 08:22 a.m. PDT**

0.25" forecast. Pacing targeted 2,000 cf = 2 pulses.
4250: 07:21 PST, 0.008', 0.00 cfs,
2105c: Set to send pulse every 1,000 cf.
6712: Program flow paced; set pacing to every 2 pulses. Run program: "PROGRAM DISABLED 07:34:23 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off, fridge at max cold (14° C).

❖ **10/30/10 @ 04:42 a.m. PDT**

4230: 03:43 PST, 0.348', 3.19 cfs
6712: "PROGRAM: FLOW PACED IS DONE." Fridge at 10° C.
Grab samples: Taken at 04:42 a.m. PDT.
Field Measurements: Temperature = 14.8° C pH = 7.51
DO (%) = 91.0 Conductivity = 14.1 uS Salinity = 0.0 ppt
DO(mg/L) = 9.20 Specific Conductance = 17.6 uS
Battery: 12.5 V.

❖ **10/30/10 @ 09:35 a.m. PDT**

4230: 08:36 PST, 0.048', 0.01 cfs
6712: "PROGRAM: FLOW PACED IS DONE."
Composite samples: Pulled at 09:35 a.m. PDT. Bottle full to neck.

MO-THO Thousand Oaks (Hill Canyon WWTP)

❖ **10/29/10 @ 11:14 a.m. PDT**

0.25" forecast. Pacing targeted 15,000 cf = 1 pulse.
4230: 10:14 PST, 2.169', 1 cfs. Pacing set at 15,000 cf in 4230.
2105c: No 2105c at this site.
6712: Program flow paced; set pacing to every 1 pulse. Run program: "PROGRAM DISABLED 10:32:34 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off, fridge turned to 4° C.

❖ **10/30/10 @ 04:50 a.m. PDT**

4230: 03:52 PST, 4.158' [o/s at 4' step], 106 cfs
6712: "SAMPLE 28 AFTER 1 PULSES." Bottle ~3/4 full.
Grab samples: Taken at 05:00 a.m. PDT.
Field Measurements: Temperature = 14.0° C pH = 7.94

DO (%) = 103.0 Conductivity = 134.6 uS Salinity = 0.1 ppt
DO(mg/L) = 10.54 Specific Conductance = 169.8 uS

❖ **10/30/10 @ 11:10 a.m. PDT**

4230: 10:11 PST, 2.301', 3 cfs
6712: "PROGRAM: FLOW PACED IS DONE."
Composite samples: Pulled at 11:10 a.m. PDT. Bottle full to mid-neck.

MO-VEN Ventura (Moon Ditch)

❖ **10/28/10 @ 14:52 p.m. PDT**

0.4"forecast. Pacing targeted 8,000 cf = 8 pulses.
4230: 13:53 PST, 0.040', 0 cfs
2105c: Logged into 2105c, reset instrument, cloned 2105c using good profile from database. Set to send pulse every 1,000 cf.
6712: Program flow paced; set pacing to every 8 pulses. Program not run. Put one 18.5 L bottle (labeled) in house but not in fridge. Fridge turned down.

❖ **10/29/10 @ 15:00 p.m. PDT**

4230: 14:00 PST, 0.040', 1 cfs
6712: Run program. "PROGRAM DISABLED 14:04:37 FR 29-OCT." Installed one 18.5 L bottle, labeled, lid off. Fridge at 5° C (max cold setting).
Battery: 13.6 V.

❖ **10/30/10 @ 03:27 a.m. PDT**

4230: 02:24 PST, 01.221', 130 cfs
6712: "PROGRAM: FLOW PACED IS DONE."
Grab samples: Taken at 03:27 a.m. PDT.
Field Measurements: Temperature = 13.9° C pH = 6.78
DO (%) = 97.6 Conductivity = 13.2 uS Salinity = 0.0 ppt
DO(mg/L) = 10.17 Specific Conductance = 18.6 uS
Battery: 12.6 V.

❖ **10/30/10 @ 12:30 p.m. PDT**

4230: 11:29 PST, 0.041', 1 cfs
6712: "PROGRAM: FLOW PACED IS DONE."
Composite samples: Pulled at 12:30 p.m. PDT. Bottle full to neck.

Sample Tracking

❖ **Bacteria samples to VCHCA** (Susan Benavides):

10/30/10 @ 07:30 PDT: VR2/SCR/HUE Kelly Hahs and Chris Stephens (VRSD)
10/30/10 @ 06:45 PDT: CC/CAM/THO/OXN: Arne Anselm and David Thomas (VRSD)
10/30/10 @ 08:00 PDT: VEN/FIL/SPA/MPK/SIM: Bill Carey and Dave Panaro

❖ **Toxicity samples to Aquatic Bioassay & Consulting Laboratories, Inc.:**

10/30/10 @ 08:55 PDT (to Arnel Ramos): HUE/OXN/FIL/SPA/MPK/SIM/THO by Bill Carey and Chris Stephens (VRSD)

❖ **Grab and composite samples to Weck Laboratories, Inc:**

10/30/10 @ 14:20 PDT (to Amir Levy from Reliable Messenger Service, the Weck-provided courier): All grab samples and composites from VR2/CAM/VEN/OXN/SPA/SIM/MPK/THO by Kelly Hahs

- **Remaining composite samples to Weck Laboratories, Inc.:**

10/31/10 @ 11:35 PDT (to Jaime Posadas from Reliable Messenger Service, the Weck-provided courier): CC/SCR /HUE/FIL by Kelly Hahs

Program Notes

MO-OJA and MO-MEI composite samplers collected insufficient sample for analysis (seven and three samples respectively) so this event was ruled invalid for those two sites. The grab samples that were collected at MO-OJA, MO-MEI, and MD-1 (at MO-MEI) were negated and sent to the laboratory for disposal.

NPDES 2010/2011 Water Quality Monitoring
Event #3 (Wet), November 20-21, 2010 Summary

NOTE: Event 3 was a make-up event for MO-MEI and MO-OJA because their samples were voided for Event 2. Only MO-MEI and MO-OJA were sampled

Forecasted Rainfall Amounts: 0.5" to 1.25" (coast and valleys) and 1-2" in the mountains.

Actual Rainfall Amounts: 1.11" (Meiners Oaks)

Sampling Durations (to nearest 0.5 hours):
MO-MEI = 4.0 hours. MO-OJA = 3.5 hours.

Storm Control: Not utilized.

Sampling Crew (during storm):
Bill Carey and Tommy Liddell (VCWPD)

Sampling Crew (post storm sample pickup):
Bill Carey and Tommy Liddell (VCWPD)

NPDES ~ MAJOR OUTFALLS

MO-MEI Meiners Oaks (Happy Valley Drain)

- **11/19/10 @ 13:19 PST**

0.75" forecast.
4230: 13:19 PST, 0.079', 1 cfs
2105c: Set to send pulse every 1,000 cf. [Note: Changed remotely (by phone) by Bill Carey at 15:00 PST to 2,000 cf.]
6712: Program flow paced; set pacing to every 2 pulses. Run program. Installed bottle, guide cap on. Fridge at 2° C.
Battery: 13.4 Volts.

- **11/20/10 @ 06:32 PST**

4230: 06:35 PST, 0.177', 6 cfs [OSS = 0.15' at 09:36 PST]
6712: "Sample 20 after 2 pulses. Errors have occurred." Removed leaves from intake strainer. Bottle ~ half full. Fridge temp 0° C. Reset "Flow-paced" program for 20 samples due to missed samples.
Battery: 12.7 Volts.
Grab samples: Taken at 06:45 a.m. PST. MD-1 taken at 06:45 a.m. PST.

Field Measurements:	Temperature = 12.7° C	pH = 6.54
DO (%) = 92.8	Conductivity = 66.7 uS	Salinity = 0.0 ppt
DO(mg/L) = 9.79	Specific Conductance = 81.8 uS	

- **11/21/10 @ 08:02 PST**

4230: 08:02 PST, 0.080', 1 cfs
6712: "PROGRAM: FLOW PACED IS DONE."
Composite samples: Pulled at 08:05 PST. Bottle full.
Battery: 12.8 Volts.
Notes: Turned off fridge which was at 4° C.

MO-OJA Ojai (Fox Canyon Barranca)

- **11/19/10 @ 13:46 PST**

0.75" forecast.
4230: 13:46 PST, 0.028', 1 cfs
2105c: Set to send pulse every 1,000 cf. [Note: Changed remotely (by phone) by Bill Carey at 15:00 PST to 2,500 cf.]
6712: Program flow paced; set pacing to every 2 pulses. Run program. Installed bottle, removed lid.
Battery: Full.

- **11/20/10 @ 07:23 PST**

4230: 07:23 PST, 0.115', 7 cfs. [OSS = ±0.10' at 07:20 PST]
6712: "PROGRAM DISABLED". Estimate ~ 10 L in bottle.
Battery: Full.
Grab samples: Taken at 07:45 a.m. PST.

Field Measurements:	Temperature = 12.8° C	pH = 7.31
DO (%) = 92.5	Conductivity = 52.9 uS	Salinity = 0.0 ppt
DO(mg/L) = 9.80	Specific Conductance = 68.1 uS	

- **11/21/10 @ 07:40 PST**

4230: 07:41 PST, 0.029', 2 cfs
6712: "PROGRAM: FLOW PACED IS DONE." Turned 6712 off.
Composite samples: Pulled at 07:40 a.m. PST. Bottle full.

Sample Tracking

- **Bacteria samples to VCHCA** (Susan Benavides):

11/20/10 @ 08:40 PST: [MO-MEI/MO-OJA/MD-1) Bill Carey and Tommy Liddell

- **Grab and composite samples to Weck Laboratories, Inc:**

11/21/10 @ 09:15 PST (to Amir Levy from Reliable Messenger Service, the Weck-provided courier): All grab samples and composites: Tommy Liddell.

Program Notes

MO-OJA and MO-MEI composite samplers collected insufficient sample for analysis (seven and three samples respectively) during Event 2 so that event was ruled invalid for these two sites. This event is the second wet event for the 2010/11 season for these two sites.

NPDES 2010/2011 Water Quality Monitoring
Event #4 (Wet), February 16-17, 2011 Summary

Forecasted Rainfall Amounts: 0.5" to 1" across the county

Actual Rainfall Amounts: 0.5" in Moorpark to 0.8" County Government Center

Sampling Durations (to nearest 0.5 hours):

ME-CC = 32.5 hrs.	ME-SCR = 23.0 hrs.	ME-VR2 = 5.5 hrs.
MO-CAM = 4.0 hrs.	MO-FIL = 12.0 hrs.	MO-HUE = 12.0 hrs.
MO-MEI = 7.0 hrs.	MO-MPK = 5.5 hrs.	MO-OJA = 11.0 hrs.
MO-OXN = 3.5 hrs.	MO-SIM = 4.5 hrs.	MO-SPA = 2.5 hrs.
MO-THO = 6.0 hrs.	MO-VEN = 6.0 hrs.	

Storm Control: Tommy Liddell

Sampling Crew (during storm):
Team One (VR2/OJA/MEI(&MD-1)/VEN/ME-SCR): Kelly Hahs & Barbara Council
Team Two (CC/CAM/HUE/OXN/THO): Arne Anselm & David Thomas (VRSD)
Team Three (FIL/SPA/MPK/SIM/THO): Bill Carey & Jason Siegert (VRSD)

Sampling Crew (post-storm sample pickup): Kelly Hahs & Tommy Liddell

NPDES ~ MASS EMISSION

ME-CC Calleguas Creek (CSUCI Bridge)

❖ **02/14/11 @ 10:52 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when 4230>1.22', current level is 1.136'. Status disabled. Pacing volume 1000 cf.

❖ **02/15/11 @ 11:35 a.m. PST**

Forecast 1/3" rainfall → 400,000 cf pacing.
4230: 11:35 PST, 1.168', 4 cfs
6712: Flushed line with 2L distilled water. Pump count 406,255. Refrigerator is cold. Program flow paced; set pacing to every 400 pulses, 36 hour max run time. Run program: "Program disabled". Installed one 18.5 L labeled bottle, lid off. Left grab bottles onsite.

❖ **02/16/11 @ 06:50 a.m. PST**

4230: 06:50 PST, 1.659', 55 cfs
6712: "Sample 13 after 1 pulses." Bottle 1/3 full.

Grab samples: Taken at check structure @ 07:05 a.m. PST.

Field Measurements:	Temperature = 14.7° C	pH = 7.77
DO (%) = 89.3	Conductivity = 599 uS	Salinity = 0.4 ppt
DO(mg/L) = 8.92	Specific Conductance = 746 uS	

❖ **02/16/11 @ 08:37 a.m. PST**

4230: 08:37 PST, 1.340', 16 cfs
6712: "Program: Flow paced is done" Bottle approximately 11 L. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.

Composite samples: Pulled at 08:37 a.m. PST.

ME-SCR Santa Clara River (Freeman Diversion)

❖ **02/14/11 @ 10:45 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when rainfall>0.15", 1260 minutes, dry period 0 seconds. Status disabled.

❖ **02/15/11 @ 10:30 a.m. PST**

Forecast 1/3" rainfall.
4210: 10:30 a.m. PST, 0.010', 0 cfs
6712: Flushed line with 2L distilled water. Pump count 293,239. Refrigerator at 4° C. Program time paced, run program: "Program disabled". Installed one 18.5 L labeled bottle, lid off. Left grab bottles onsite.

❖ **02/16/11 @ 08:33 a.m. PST**

4210: 08:33 a.m. PST, 0.006', 0 cfs
6712: "Sample 16 in 00:31:02". Bottle half full.
Grab samples: Taken at @ 08:55 a.m. PST.

Field Measurements:	Temperature = 13.7° C	pH = 8.05
DO (%) = 88.1	Conductivity = 780 uS	Salinity = 0.5 ppt
DO(mg/L) = 9.10	Specific Conductance = 1002 uS	

❖ **02/17/11 @ 09:50 a.m. PST**

4210: 09:50 a.m. PST
6712: "Program: time paced is done." Bottle full to top. Pump reverse 2L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 09:50 a.m. PST.
Notes: Calibrate 6712 pump before next event.

ME-VR2 Ventura River (Ojai Valley Sanitary District)

❖ **02/14/11 @ 10:00 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when 4230>2.94', current level is 2.895'. Status disabled. Pacing volume 1000 cf.

❖ **02/15/11 @ 15:21 p.m. PST**

Forecast 1/3" rainfall → 30,000 cf pacing.
4230: 15:21 p.m. PST, 2.895', 34 cfs
6712: Flushed line with 1L distilled water. Refrigerator at 4° C. Program flow paced; set pacing to every 30 pulses. Run program: "Program disabled: 15:25:32 TU 15-FEB". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

❖ **02/16/11 @ 04:01 a.m. PST (storm control)**

Site thought to be incorrectly paced at 3,000 cf because sampling program already completed. Only very small rise in hydrograph so KH going to dump bottle and re-program at correct 30,000 cf pace.

❖ **02/16/11 @ 05:13 a.m. PST**

4230: 05:13 PST, 2.984', 48 cfs
6712: "Program: Flow paced is done". Bottle full. Confirmed pulses were set at 30. Emptied bottle. Collected grab samples while waiting for instructions from Storm Control.
Grab samples: Taken in river upstream of composite inlet at 05:40 a.m. PST.

NPDES 2010/2011 Event #4 (Wet)

Field Measurements:	Temperature = 14.3° C	pH = 7.80
DO (%) = 78.4	Conductivity = 823 uS	Salinity = 0.5 ppt
DO(mg/L) = 8.02	Specific Conductance = 1034 uS	

❖ **02/16/11 @ 5:36 a.m. PST (storm control)**

Phone conversation with KH revealed that pacing on 6712 was correct (30,000 cf), but that samples were still being taken about every 2 minutes (at 50 cf = 6,000cf). While attempting to connect to ME-VR2 to determine source of pacing error, power to HOA completely shut down for about 5 minutes. Later unable to connect to site (unable to determine modules, error code 3218). Will have KH multiply pulse counts by 5 (150,000) to get correct pacing of 30,000.

❖ **02/16/11 @ 5:50 a.m. PST (storm control)**

At suggestion of WBC, reset both pacing and enabling, and had KH reset program (pulses set at 150). First 3 samples appear to be accurately spaced, but now flow rate is not being pushed to SQL server. This is a minor issue because data exists and can be back-calculated, but will work on this remotely as time allows this morning.

❖ **10/06/10 @ 12:16 p.m. PST**

4230: 12:16 PST, 3.031', 51 cfs
6712: "Program: Flow paced is done". Bottle full to top. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 12:16 p.m. PST.

NPDES ~ MAJOR OUTFALLS

MO-CAM Camarillo (Camarillo Hills Drain)

❖ **02/14/11 @ 10:38 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when 4230>0.08', current level is 0.032'. Status disabled. Pacing volume 1000 cf.

❖ **02/15/11 @ 11:06 a.m. PST**

Forecast 1/3" rainfall → 20,000 cf pacing.
4230: 0.031', 10 cfs
6712: Flushed line with 2L distilled water. Pump count 193,136. Refrigerator is cold. Program flow paced; set pacing to every 20 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

❖ **02/16/11 @ 5:25 a.m. PST**

4230: 05:25 PST, 0.061', 12 cfs
6712: "Program: Flow paced is done.
Grab samples: Taken at 05:30 a.m. PST.

Field Measurements:	Temperature = 13.8° C	pH = 7.83
DO (%) = 103.3	Conductivity = 113.6 uS	Salinity = 0.1 ppt
DO(mg/L) = 10.66	Specific Conductance = 130.8 uS	

❖ **02/17/11 @ 08:58 a.m. PST**

4230: 08:58 PST, 0.030', 10 cfs

6712: "Program: Flow paced is done". Bottle full. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 09:00 a.m. PST.

MO-FIL Fillmore (North Fillmore Drain)

- **02/14/11 @ 11:09 a.m. PST**

2105c: Remotely programmed. Manual enable. Status disabled.

- **02/15/11 @ 14:07 p.m. PST**

Forecast 1/3" rainfall
4250: 3.204', 5.77 cfs, 0.12 ft/sec (velocity sensor is in error)
6712: Flushed line with 2L distilled water. Pump count 404,444. Refrigerator is cold. Run time paced program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

- **02/16/11 @ 03:07 a.m. PST (storm control)**

2105c: Remotely enabled site.

- **02/16/11 @ 05:30 a.m. PST**

4250: 3.835', 0.26 ft/sec, 25.85 cfs (rating is in error)
6712: "Sample 8 in 00:08:16". Bottle 1/5 full.
Grab samples: Taken at 05:30 a.m. PST.

Field Measurements:	Temperature = 14.4° C	pH = NR
DO (%) = 94.4	Conductivity = 76.1 uS	Salinity = 0.0 ppt
DO(mg/L) = 9.63	Specific Conductance = 97.4 uS	

Notes: Battery = 12.5 volts

- **02/17/11 @ 06:30 a.m. PST**

4250: 06:30 PST, 3.189', 7.17 cfs (rating is in error)
6712: "Program: time paced is done". Bottle full. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 06:30 a.m. PST.

MO-MEI Meiners Oaks (Happy Valley Drain)

- **02/14/11 @ 09:46 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when 4230>0.15', current level is 0.036'. Status disabled. Pacing volume 1000 cf.

- **02/15/11 @ 16:26 p.m. PST**

Forecast 0.50" rainfall → 3,000 cf pacing.
4230: 16:26, 0.037', 0 cfs
6712: Flushed line with 1L ultrapure water. Pump tubing could be replaced but requires two people to recalibrate so left tubing as is. Turned refrigerator on to coldest setting. Program flow paced; set pacing to every 3 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles and field blank bottles onsite.
Notes: Did not rake leaves upstream of intake because of safety concerns (unauthorized person with alcohol in the channel).

- **02/16/11 @ 06:30 a.m. PST**

4230: 06:34 PST, 0.129', 3 cfs
6712: "Program disabled". No samples taken although flow was above intake. Storm Control remotely enabled the program.
Notes: Raked leaves in channel above intake strainer. Need to check intake strainer elevation with recent survey (several back-and forth adjustments of 0.04" were made due to draw-down and pile-up).
Grab samples: Taken at 06:50 a.m. PST. Field blanks (MB-1) taken at 06:50 a.m. PST.
Field Measurements: Temperature = 12.6° C pH = 8.05
DO (%) = 88.9 Conductivity = 173.1 uS Salinity = 0.1 ppt
DO(mg/L) = 9.43 Specific Conductance = 229.1 uS
6712: "Sample 4 after 1 pulses". Bottle volume good.

❖ **02/16/11 @ 11:48 a.m. PST**

4230: 11:48 PST, 0.036', 0 cfs
6712: "Program: Flow paced is done. Errors have occurred during program." No liquid detected samples 25-27. Program ended at 27 samples. Bottle ~ 12L. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 11:48 a.m. PST.

MO-MPK Moorpark (Gabbert Canyon Drain)

❖ **02/14/11 @ 11:18 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when 4230>0.15', current level is 0.077'. Status disabled. Pacing volume 1000 cf.

❖ **02/15/11 @ 11:55 a.m. PST**

Forecast 0.33" rainfall → 2,000 cf pacing.
4230: 11:55 PST, 0.073', 0.2 cfs
6712: Flushed line with 1L distilled water. Pump count 190,591. Turned refrigerator to coldest setting. Program flow paced; set pacing to every 2 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.
Notes: Battery = 13.6 volts.

❖ **02/16/11 @ 07:15 a.m. PST**

4230: 07:15 PST, 0.170', 2.0 cfs
6712: "Program: Flow paced is done". Several "no liquid detected" entries. Composite bottle ½ full.
Grab samples: Taken at 07:15 a.m. PST.
Field Measurements: Temperature = 13.3° C pH = NR
DO (%) = 106.7 Conductivity = 91.6 uS Salinity = 0.1 ppt
DO(mg/L) = 11.03 Specific Conductance = 118.5 uS
Notes: Collected sample from reinforced concrete pipe (Edison plant runoff) that enters sample channel approximately 100 ft upstream of the sampler intake. Sample to be analyzed for pentachlorophenol analysis (EPA 515.3).

❖ **02/17/11 @ 07:04 a.m. PST**

4230: 07:04 PST, 0.073', 0.2 cfs

6712: "Program: Flow paced is done". Approximately half the samples were "no liquid detected". Bottle ~ 8L. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 7:03 a.m. PST.

MO-OJA Ojai (Fox Canyon Barranca)

❖ **02/14/11 @ 09:39 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when 4230>0.15', current level is -0.009'. Status disabled. Pacing volume 1000 cf.

❖ **02/15/11 @ 16:00 p.m. PST**

Forecast 0.50" rainfall → 3,000 cf pacing.
4230: 15:58 PST, -0.008', 0 cfs
6712: Flushed line with 1L ultrapure water. Pump tubing condition checked. Turned refrigerator to 4° C. Program flow paced; set pacing to every 3 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

❖ **02/16/11 @ 07:23 a.m. PST**

4230: 07:23 PST, 0.100', 5 cfs
6712: "Program disabled".
Grab samples: Taken at 07:35 a.m. PST.

Field Measurements:	Temperature = 12.8° C	pH = 7.75
DO (%) = 89.3	Conductivity = 98.6 uS	Salinity = 0.1 ppt
DO(mg/L) = 9.47	Specific Conductance = 127.6 uS	

❖ **02/17/11 @ 11:23 a.m. PST**

4230: 11:23 PST, -0.010', 0 cfs
6712: "Program: Flow paced is done". Bottle almost full to shoulder. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 11:23 a.m. PST.

MO-OXN Oxnard (El Rio Drain)

❖ **02/14/11 @ 10:10 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when 4230>0.16', current level is 0.109'. Status disabled. Pacing volume 1000 cf.

❖ **02/15/11 @ 12:40 p.m. PST**

Forecast 0.33" rainfall → 11,000 cf pacing.
4230: 0.108', 0.2 cfs
6712: Flushed line with 2L distilled water. Pump count 267,499. Turned refrigerator to coldest setting. Program flow paced; set pacing to every 11 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

❖ **02/16/11 @ 04:30 a.m. PST**

4230: 04:30 PST, 0.855' [o/s 0.85']
6712: "Program: Flow paced is done" Bottle full.
Grab samples: Taken at 04:40 a.m. PST.

Field Measurements:	Temperature = 13.9° C	pH = 7.53

DO (%) = 100.0 Conductivity = 52.5 uS Salinity = 0.0 ppt
DO(mg/L) = 10.35 Specific Conductance = 66.1 uS

❖ **02/17/11 @ 10:27 a.m. PST**

4230: 10:27 PST, 0.110', 0.3 cfs
6712: "Program: Flow paced is done". Bottle full. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 10:27 a.m. PST.

MO-HUE Port Hueneme (Hueneme Drain)

❖ **02/14/11 @ 10:25 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when rainfall>0.15' in 360 minutes, dry period 0 seconds. Status disabled.

❖ **02/15/11 @ 12:10 p.m. PST**

Forecast 1/3" rainfall
6712: Flushed line with 2L distilled water. Pump count 336,432. Refrigerator is cold. Run time paced program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

❖ **02/16/11 @ 07:30 a.m. PST**

6712: "Sample 17 in 00:19:00". Bottle approximately 1/3 full.
Grab samples: Taken at 07:40 a.m. PST.
Field Measurements: Temperature = 14.6° C pH = 7.44
DO (%) = 77.2 Conductivity = 2211 uS Salinity = 1.5 ppt
DO(mg/L) = 7.80 Specific Conductance = 2765 uS
Field Measurements (at pump discharge at 07:45 a.m. PST):
Temperature = 14.7° C pH = 7.44
DO (%) = 88.2 Conductivity = 2231 uS Salinity = 1.5 ppt
DO(mg/L) = 8.87 Specific Conductance = 2780 uS
Field Measurements (at sample site (stairs) while pumps are running:
Temperature = 14.5° C pH = NR
DO (%) = 82.1 Conductivity = 1802 uS Salinity = 1.2 ppt
DO(mg/L) = 8.32 Specific Conductance = 2256 uS

❖ **02/17/11 @ 13:32 p.m. PST**

6712: "Program: time paced is done". Bottle full. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 13:32 p.m. PST.

MO-SIM Simi Valley (Bus Canyon Drain)

❖ **02/14/11 @ 11:32 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when 4230>0.30', current level is 0.252'. Status disabled. Pacing volume 1000 cf.

❖ **02/15/11 @ 10:51 a.m. PST**

Forecast 0.33" rainfall → 10,000 cf pacing.
4230: 10:51 PST, 0.265', 9 cfs

6712: Flushed line with 1L distilled water. Pump count 136,899. Turned refrigerator to coldest setting. Program flow paced; set pacing to every 10 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

❖ **02/16/11 @ 06:35 a.m. PST**

4230: 0.323' [o/s 0.28], 15 cfs
6712: "Program: Flow paced is done. Errors have occurred during program". Composite bottle is full.
Grab samples: Taken at 06:35 a.m. PST

Field Measurements:	Temperature = 14.2° C	pH = NR
DO (%) = 83.3	Conductivity = 346.0 uS	Salinity = 0.2 ppt
DO(mg/L) = 8.52	Specific Conductance = 443.3 uS	

Notes: Battery = 12.7 volts.

❖ **02/17/11 @ 07:30 a.m. PST**

4230: 07:30 PST, 0.243', 8 cfs
6712: "Program: Flow paced is done. Errors have occurred during this program". No liquid detected at first sample. Bottle full. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 07:30 a.m. PST.

MO-SPA Santa Paula (11th Street Drain)

❖ **02/14/11 @ 11:03 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when 4230>0.10', current level is -0.019'. Status disabled. Pacing volume 1000 cf.

❖ **02/15/11 @ 14:45 p.m. PST**

Forecast 0.33" rainfall → 3,000 cf pacing.
4230: 0.008', 0.0 cfs, 0.04 ft/sec,
6712: Flushed line with 2L distilled water. Pump count 418,258. Refrigerator is cold. Program flow paced; set pacing to every 3 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.
Notes: Top-left quadrant (looking upstream) of scissor ring is dangling down. Loosened control screw, pushed back in place and re-tighten control screw. May require a more permanent fix.

❖ **02/16/11 @ 04:34 a.m. PST**

4230: 04:34 PST, 0.291', 2.26 cfs, 5.56 ft/sec
6712: "Program flow paced is done". Bottle is full.
Grab samples: Taken at 04:34 a.m. PST.

Field Measurements:	Temperature = 13.5° C	pH = NR
DO (%) = 106.5	Conductivity = 33.3 uS	Salinity = 0.0 ppt
DO(mg/L) = 11.06	Specific Conductance = 45.6 uS	

❖ **02/17/11 @ 06:05 a.m. PST**

4230: 06:05 PST, 0.028', 0 cfs
6712: Bottle is full. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 06:05 a.m. PST.

MO-THO Thousand Oaks (Hill Canyon WWTP)

❖ **02/15/11 @ 12:31 p.m. PST**

Forecast 0.33" rainfall → 15,000 cf pacing.
4230: 12:31 PST, 2.136', 1 cfs. Pacing set at 15,000 cf. Threshold for enable set to 2.50'.
6712: Pump tube count 604,044. Changed pump tubing and reset count to zero. Calibrated for 500 ml 1) 460 ml, 2) 520 ml, 3) 500 ml. Flushed line with 1L distilled water. Refrigerator set to 4° C. "Program flow paced", pacing = 15,000 cf so programmed to sample every 1 pulse. Run program. "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

❖ **02/16/11 @ 06:10 a.m. PST**

4230: 06:10 PST, 2.586', 11 cfs
6712: "Sample 24 after 1 pulses". Bottle approximately 2/3 full.
Grab samples: Taken at 06:15 a.m. PST.

Field Measurements:	Temperature = 13.7° C	pH = 8.09
DO (%) = 97.6	Conductivity = 334.0 uS	Salinity = 0.2 ppt
DO(mg/L) = 9.72	Specific Conductance = 425.9 uS	

❖ **02/17/11 @ 08:04 a.m. PST**

4230: 08:04 PST, 2.204', 2 cfs
6712: "Program: Flow paced is done". Bottle full. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.
Composite samples: Pulled at 08:04 a.m. PST.

❖ **02/22/11 @ 13:30 p.m. PST**

4230: Downloaded 4230 data to laptop via UPN connection through air card.

MO-VEN Ventura (Moon Ditch)

❖ **02/14/11 @ 09:25 a.m. PST**

2105c: Remotely programmed. Sampler enable on trigger when 4230>0.18', current level is 0.038'. Status disabled. Pacing volume 1000 cf.

❖ **02/14/11 @ 12:47 p.m. PST**

4230: 0.037', 0 cfs
6712: Checked pump tubing (visual) for signs of wear. Pump count 204,513. Tubing does not need replaced at this time.

❖ **02/15/11 @ 13:08 p.m. PST**

Forecast 0.33" rainfall → 15,000 cf pacing.
4230: 0.037', 0 cfs
6712: Flushed line with 2L distilled water. Refrigerator on. Program flow paced; set pacing to every 15 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

❖ **02/16/11 @ 04:16 a.m. PST**

4230: 04:16 PST, 0.315' [o/s 0.4' at 4:25 a.m. PST], 14 cfs
6712: "Sample 35 after 11 pulses". Bottle full.

NPDES 2010/2011 Event #4 (Wet)

Grab samples: Taken at 04:30 a.m. PST.

Field Measurements:	Temperature = 13.8° C	pH = 7.20
DO (%) = 89.9	Conductivity = 86.1 uS	Salinity = 0.1 ppt
DO(mg/L) = 9.39	Specific Conductance = 109.2 uS	

❖ **02/17/11 @ 10:45 a.m. PST**

4230: 10:45 PST, 0.037', 0 cfs

6712: "Program: Flow paced is done". Bottle full. Flushed line with 2 L distilled water. Raised fridge temp for non-sampling period.

Composite samples: Pulled at 10:45 a.m. PST.

Notes: Rain gauge was not recording rainfall. Checked rain gauge connections – okay. Found spider web and large spider in rain gauge. Removed spider and web. Manually tipped bucket at 10:47 a.m. PST.

Sample Tracking

❖ Bacteria samples to VCHCA (Susan Benavides):

2/16/11 @ 10:05 PST: VR2/OJA/MEI(&MD-1)/VEN/SCR: Kelly Hahs & Barbara Council
2/16/11 @ 08:40 PST: CC/CAM/HUE/OXN/THO: Arne Anselm & David Thomas (VRSD)
2/16/11 @ 08:10 PST: FIL/SPA/MPK/SIM: Bill Carey & Jason Siegert (VRSD)

❖ Grab and composite samples to Weck Laboratories, Inc. by Weck-provided courier (Corporate) from Saticoy Operations Yard:

2/17/11 @ 14:15 PST (to Jorge Nuila): All grab samples and composites from CC/CAM/SPA/FIL/SIM/MPK/THO by Kelly Hahs & Tommy Liddell

❖ Remaining composite samples to Weck Laboratories, Inc. by Weck-provided courier (RMS) from Saticoy Operations Yard:

2/17/11 @ 14:50 PST (to Amir Levy): SCR/HUE/VR2/MEI/OJA/VEN/OXN by Kelly Hahs

Program Notes

From past events: The settings "countdown continues while disabled" and "max run time of 24 hours" combine to end the program 24 hours after initially run, rather than 24 hours after the sampler is enabled and the first sample taken. All samplers will be reprogrammed to maintain the 24 hours max run time, but the countdown setting will be changed to "countdown is stopped while disabled."

NPDES 2010/2011 Water Quality Monitoring
Event #5 (Dry), April 18-19 & 27-29, 2011 Summary

Sampling Durations (to nearest 0.5 hours):

ME-CC = 23.0 hrs.	ME-SCR = 23.0 hrs.	ME-VR2 = 23.5 hrs.
MO-CAM = 23.0 hrs.	MO-FIL = 23.0 hrs.	MO-HUE = 23.0 hrs.
MO-MEI = 23.0 hrs.	MO-MPK = 23.0 hrs.	MO-OJA = 23.0 hrs.
MO-OXN = 23.0 hrs.	MO-SIM = 23.0 hrs.	MO-SPA = 3.0 hrs.
MO-THO = 23.5 hrs.	MO-VEN = 23.0 hrs.	

Sampling Crew (April 18-19):
Bill Carey, Tommy Liddell, Kelly Hahs.

Sampling Crew (April 27-29): Bill Carey, Kelly Hahs, Tommy Liddell.

EVENT 5.1 April 18-19, 2011

NPDES ~ MASS EMISSION

ME-VR2 Ventura River (Ojai Valley Sanitary District)

- **04/18/11 @ 11:20 am PDT**

4230: 10:20 a.m. PST, 2.985', 17 cfs
6712: Flushed line with 2 L distilled water. Calibrated line 1) 500ml → 375ml, 2) 500ml → 325ml, 3) 500ml→ 450ml. Pump reverse 2L distilled water. Unplugged communication line to 6712. Installed one labeled 18.5 L bottle, lid off. Refrigerator set to 4° C. Program time-paced for 35 x 500ml samples, taken every 41 minutes. Once enabled stay enabled, sample at start. Run program. Sample 1 @11:45 am PDT, volume good. Left grab bottles onsite.

- **04/19/11 @ 12:30 pm PDT**

4230: 11:26 PST, 2.997', 18 cfs
6712: "Program: Flow paced is done" (note: program was time paced but name of program was not changed). Bottle full. Pump reverse 2L distilled water, turned fridge temp up. Reconnected communication line.

Grab samples: Taken in river upstream of composite inlet at 12:35 pm PDT.

Field Measurements:	Temperature = 16.8° C	pH = 8.29
DO (%) = 102.8	Conductivity = 860 uS	Salinity = 0.5 ppt
DO(mg/L) = 9.97	Specific Conductance = 1019 uS	

Composite samples: Pulled at 12:30 p.m. PDT.

- **04/20/11 @ 08:30 am PDT (remote)**

Notes: Set sampler enable to "always", set to "no" pacing, set battery alarm to 30 minute duration and 12 hour parameter measurement interval.

- **04/21/11 @ 12:25 pm PDT**

Notes: Downloaded 6712 to laptop, installed "Unipro" charger.

NPDES ~ MAJOR OUTFALLS

MO-MEI Meiners Oaks (Happy Valley Drain)

- **04/18/11 @ 10:40 am PDT**

Notes: Scraped leaves and mud from channel and laid weighted silicone line dam across channel.
4230: 09:40, 0.081', 1 cfs
6712: Pump count @ 339,009. Switched to calibration line and flushed with 2L ultrapure deionized water. Turned refrigerator to colder setting. Installed one labeled 18.5 L bottle, lid off. Unplugged communication line to 6712. Program time-paced for 35 x 500ml samples, taken every 41 minutes. Once enabled stay enabled, sample at start. Run program. Sample 1 @ 10:55 am PDT, volume good. Left grab bottles onsite.

- **04/19/11 @ 09:30 am PDT (remote)**

Notes: Set sampler enable to "always", set to "no" pacing, set battery alarm to 30 minute duration and 12 hour parameter measurement interval.

- **04/19/11 @ 11:40 am PDT**

4230: 10:45 PST, 0.081', 1 cfs
6712: "Program: Flow paced is done" (note: program was time paced but name of program was not changed). Bottle full. Pump reverse 2L distilled water (calibration line kinked during flush, may need replaced). Reconnected stainless steel line and communication line. Pump count 404,689. Turned fridge temp up and 6712 off.
Grab samples: Taken at 11:55 am PDT.

Field Measurements:	Temperature = 16.6° C	pH = 8.66
DO (%) = 102.0	Conductivity = 1137 uS	Salinity = 0.7 ppt
DO(mg/L) = 10.01	Specific Conductance = 1352 uS	

Composite samples: Pulled at 11:40 am PDT.

- **04/21/11 @ 10:22 am PDT**

Notes: Downloaded 6712 to laptop, fridge at 3° C.

MO-OJA Ojai (Fox Canyon Barranca)

- **04/18/11 @ 09:50 am PDT**

Notes: Scrubbed algae from channel and laid weighted silicone line dam across channel.
4230: 08:47 PST, -0.009', 0 cfs
6712: Pump count 301,161. Switched to calibration line, flushed line with 2L ultrapure deionized water. Pump count 304,724. Turned refrigerator to 4° C. Installed one labeled 18.5 L bottle, lid off. Disconnected 2105c, connected 4230 to 6712. Program time-paced for 35 x 500ml samples, taken every 41 minutes. Once enabled stay enabled, sample at enable, no delay to start. Run program. Sample 1 @ 10:10 am PDT, volume good. Left grab bottles onsite.

- **04/19/11 @ 11:00 am PDT**

4230: 09:57 am PST, -0.009', 0 cfs
6712: "Program: Flow paced is done" (note: program was time paced but name of program was not changed). Bottle full. Pump reverse 2L ultrapure deionized water, reconnected stainless steel line and communication line. Pump count 375,792. Turned fridge temp up, 6712 off, and reconnected 2105c.
Grab samples: Taken at 11:00 am PDT.

Field Measurements:	Temperature = 19.1° C	pH = 7.51

DO (%) = 167.1 Conductivity = 1280 uS Salinity = 0.7 ppt
DO(mg/L) = 15.72 Specific Conductance = 1441 uS
Composite samples: Pulled at 10:55 am PDT.

❖ **04/20/11 @ 08:20 am PDT (remote)**

Notes: Set sampler enable to “always”, set to “no” pacing, set battery alarm to 30 minute duration and 12 hour parameter measurement interval.

❖ **04/21/11 @ 09:30 am PDT**

Notes: Downloaded 6712 to laptop, replaced desiccant 2105c and 4230 bubbler.

MO-HUE Port Hueneme (Hueneme Drain)

❖ **04/18/11 @ 12:20 pm PDT**

6712: Unplugged communication line. Flushed line with 2L distilled water. Pump count 492,220. Installed one labeled 18.5 L bottle, lid off. Fridge at 4° C . Program time-paced for 35 x 500ml samples, taken every 41 minutes. Once enabled stay enabled, sample at start. Run program. Sample 1 @ 12:28 pm PDT, volume good. Left grab bottles onsite. Run time paced program: “Program disabled”. Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

❖ **04/19/11 @ 09:20 am PDT (remote)**

6712: Set sampler enable to “Always”, “No” pacing, battery alarm to 30 minutes duration and 12 hours parameter measurement interval.

❖ **04/19/11 @ 13:20 pm PDT**

6712: “Program: Time paced is done”. Bottle full. Pump reverse 2L distilled water. Pump count 645,520. Turned fridge temp up and reconnected 2105c. “Sample 17 in 00:19:00”. Bottle approximately 1/3 full.
Grab samples: Taken at 13:25 pm PDT.
Field Measurements: Temperature = 22.5° C pH = 7.78
DO (%) = 147.1 Conductivity = 12.61 mS Salinity = 7.7 ppt
DO(mg/L) = 11.82 Specific Conductance = 13.35 mS
Composite samples: Pulled at 13:20 pm PDT.

❖ **05/20/11 @ 10:20 am PDT**

Notes: Downloaded 6712 data onto laptop, battery at 100%.

❖ **05/23/11 @ 09:00 am PDT (remote)**

Notes: Loaded 6712 data into SQL server Flowlink database.

MO-VEN Ventura (Moon Ditch)

❖ **04/18/11 @ 13:35 pm PDT**

Notes: Scraped channel clear of vegetation, mud, and debris and laid weighted silicone line dam across channel.
4230: 12:35 pm PST, 0.041’, 1 cfs
6712: Switched to calibration line, flushed line with 2L distilled water. Installed one labeled 18.5 L bottle, lid off. Disconnected communications line. Program time-paced for 35 x 500ml samples, taken every 41 minutes. Once enabled stay enabled, sample at

enable, no delay to start. Run program. Sample 1 @ 14:00 pm PDT, volume good. Left grab bottles onsite.

- **04/19/11 @ 07:45 am PDT (remote)**

6712: Set sampler enable to "Always", "No" pacing, battery alarm to 30 minutes duration and 12 hours parameter measurement interval.

- **04/19/11 @ 14:00 pm PDT**

4230: 13:00 pm PST, 0.116', 3 cfs
6712: "Program: Flow paced is done" (note: program was time paced but name of program was not changed). Bottle full. Pump reverse 2L distilled water, reconnected stainless steel line and communication line. Pump count 415,484. Turned fridge temp up and 6712 off.
Grab samples: Taken at 14:05 pm PDT

Field Measurements:	Temperature = 27.8° C	pH = 9.89, 9.89
DO (%) = 135.3	Conductivity = 5.35 mS	Salinity = 2.7 ppt
DO(mg/L) = 10.36	Specific Conductance = 5.09 mS	

Composite samples: Pulled at 14:00 pm PDT.

- **04/20/11 @ 11:47 am PDT**

Notes: Replaced 2105c desiccant, remaining desiccant is okay. Removed "dry weather" equipment from channel. Downloaded 6712 to laptop, inspected rain gauge, okay. Fridge at 2° C.

EVENT 5.2 April 27-29, 2011

NPDES ~ MASS EMISSION

ME-CC Calleguas Creek (CSUCI Bridge)

- **04/27/11 @ 10:30 am PDT**

4230: Not recorded
6712: Flushed line with 2L distilled water. Pump count 614,742. Refrigerator too cold, turned temp up. Installed one 18.5 L labeled bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes, sample at enable, no delay to start. Run program. Sample 1 @ 10:32 am PDT, volume good. Left grab bottles onsite. Left grab bottles onsite.

- **04/28/11 @ 10:40 am PDT**

4230: 09:40 am PST, 1.208', 7 cfs
6712: "Program is done." Bottle full. Flushed line with 2L distilled water.
Grab samples: Taken at check structure @ 10:50 am PDT.

Field Measurements:	Temperature = 20.1° C	pH = 8.09
DO (%) = 110.9	Conductivity = 1440 uS	Salinity = 0.8 ppt
DO(mg/L) = 10.02	Specific Conductance = 1588 uS	

Composite samples: Pulled at 11:00 am PDT.

ME-SCR Santa Clara River (Freeman Diversion)

- **04/27/11 @ 09:41 am PDT**

6712: Flushed line with 2L distilled water. Pump count 427,384. Refrigerator at 4° C. Installed one 18.5 L labeled bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes, once enabled stay enabled, sample at enable, no delay to start. Run program. Sample 1 @ 09:45 am PDT, volume good. Left grab bottles onsite.
Notes: UWCD taking water into diversion canal, performing flow measurement approximately 300 yards downstream of dam.

❖ **04/28/11 @ 09:18 am PDT**

6712: "Program is done". Bottle overflowed a little. Flushed line with 2L distilled water.
Grab samples: Taken in diversion canal at @ 09:40 am PDT.

Field Measurements:	Temperature = 18.1° C	pH = 8.13
DO (%) = 97.5	Conductivity = 943 uS	Salinity = 0.6 ppt
DO(mg/L) = 9.54	Specific Conductance = 1136 uS	

Composite samples: Pulled at 09:25 am PDT.

NPDES ~ MAJOR OUTFALLS

MO-CAM Camarillo (Camarillo Hills Drain)

❖ **04/27/11 @ 10:10 am PDT**

Notes: Channel was swept on 4/25/11 in preparation for dry weather event.
4230: 09:21 am PST, 0.031', 10 cfs
6712: Pump count 280,413, visual inspection okay. Refrigerator at 5° C, turned colder. Connected calibration line and flushed line with 2L distilled water. Lay weighted silicone line in channel to dam flow. Installed one 18.5 L labeled bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes. Run program. Sample 1 @ 10:23 am PDT, volume good. Left grab bottles onsite.

❖ **04/28/11 @ 10:20 am PDT**

4230: 09:21 am PST, 0.029', 10 cfs
6712: "Program is done." Bottle full. Refrigerator at 2° C. Flushed line with 2 L distilled water. Reconnected stainless sample line, removed equipment from channel. Raised fridge temp for non-sampling period and turned 6712 off. Pump count 373,745.
Grab samples: Taken at 10:25 am PDT.

Field Measurements:	Temperature = 23.4° C	pH = 8.89, 8.91
DO (%) = 176.1	Conductivity = 247.6 uS	Salinity = 0.1 ppt
DO(mg/L) = 13.18	Specific Conductance = 254.8 uS	

Composite samples: Pulled at 10:25 am PDT.

MO-FIL Fillmore (North Fillmore Drain)

❖ **04/27/11 @ 07:58 am PDT**

4250: 3.240', 6.32 cfs, 0.13 ft/sec (velocity sensor is in error)
6712: Flushed line with 2L distilled water (pump count 556,174 on 4/26/11). . Installed one 18.5 L labeled bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes, no enable (2105 should be set to enable always), sample at enable, no delay to start. Run program. Sample 1 @ 08:07 am PDT, volume good. Left grab bottles onsite.

❖ **04/28/11 @ 08:29 am PDT**

4250: 3.212', 0.31 ft/sec, 6.32 cfs
6712: "Program: time paced is done". Bottle full. Flushed line with 2 L distilled water.
Grab samples: Taken at 08:45 am PDT.

Field Measurements:	Temperature = 16.7° C	pH = 7.83
DO (%) = 47.2	Conductivity = 1043 uS	Salinity = 0.6 ppt
DO(mg/L) = 4.56	Specific Conductance = 1240 uS	

Composite samples: Pulled at 08:55 am PDT.

MO-MPK Moorpark (Gabbert Canyon Drain)

❖ **04/27/11 @ 08:00 am PDT**

Notes: No flow at site, concrete dry. Set up for event, including damming channel with weighted silicone line. Cannot trigger based on flow because dam will not hold enough water to back pool to bubbler.
4230: 07:01 am PST, 0.076', 0.2 cfs
6712: Pump count 294,970, visual inspection okay. Switched to calibration line and flushed line with 2L distilled water. Refrigerator at 2° C. Installed one 18.5 L labeled bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes, enable none programmed, repeatable, no sample at disable, sample at enable. Run program. Sample 1 "Operation Error: No Liquid Detected. Errors have occurred during this program." Left grab bottles onsite.

❖ **04/28/11 @ 08:00 am PDT**

4230: 07:00 am PST, 0.075', 0.2 cfs
6712: "Program Done: Errors have occurred." No liquid detected for all samples, no water in bottle. Last sample @ 06:29 am PST. Water now in channel, Switched to calibration line and flushed line with 2L distilled water. Restarted program. Sample 1 at 08:20 am PDT, sample volume good.
Notes: Flow now in channel, there may be only flow on Tuesdays and Thursdays because Wednesday was completely dry.
Grab samples: Taken at 08:10 am PDT.

Field Measurements:	Temperature = 14.4° C	pH = 8.47, 8.48
DO (%) = 88.7	Conductivity = 302.3 uS	Salinity = 0.2 ppt
DO(mg/L) = 9.09	Specific Conductance = 382.0 uS	

❖ **04/29/11 @ 08:40 am PDT**

4230: 07:40 PST, 0.075', 0.2 cfs
6712: "Program is done, errors have occurred." Last good sample was sample 12 at 14:48 pm PST, sample 13 at 15:29 pm PST and all following samples were dry. Bottle half full. Flushed line with 2 L distilled water and reconnected main sample line. Pump count 505,475. Refrigerator at 3° C, raised fridge temp for non-sampling period and turned 6713 off. Removed damming equipment from channel.
Composite samples: Pulled at 08:40 am PDT.

MO-OXN Oxnard (El Rio Drain)

❖ **04/27/11 @ 10:45am PDT**

4230: 09:47 am PST, 0.108', 0.2 cfs

6712: Flushed line with 2L distilled water. Refrigerator at 5° C, turned colder. Installed one labeled 18.5 L bottle, lid off. Lay weighted silicone tubing dam in channel. Channel wet and ponded but not flowing. Program time paced, every 41 minutes, 35 samples at 500 ml/sample, Enable: none programmed, once enabled, stay enabled, sample at enable. Run program: "Please wait…waiting for a valid reading. Operation error: no liquid detected. Sample 2 in 00:30:45. Errors have occurred during Program." Left grab bottles onsite.

❖ **04/28/11 @ 11:08 am PDT**

4230: 10:10 PST, 0.109', 0.2 cfs
6712: "Program is done: Errors have occurred." Bottle full. Pump reverse 2L distilled water. Turned fridge temp warmer and 6712 off. Pump count = 460,641

Grab samples: Taken at 11:15 am PDT.

Field Measurements:	Temperature = 29.1° C	pH = 8.82, 8.83
DO (%) = 233.7	Conductivity = 316.5 uS	Salinity = 0.2 ppt
DO(mg/L) = 7.37	Specific Conductance = 331.5 uS	

Composite samples: Pulled at 11:15 am PDT.
Notes: Water had a distinctly green tint (but clear). Called Arne who called Oxnard. KH and WBC tracked the discharge to a nearby mobile home park and notified Oxnard.

MO-SIM Simi Valley (Bus Canyon Drain)

❖ **04/26/11 @ 08:53 am PDT**

4230: 07:51 PST, 0.091', 0 cfs
6712: Visual inspection of pump tubing – good. Installed calibration line. Flushed line with 2 L distilled water. Pump count 214,680. Refrigerator at 5° C, turned colder. Set up weighted silicone tubing dam. Installed one labeled 18.5 L bottle, lid off. Program time-paced, 41 mins, 35 samples, 500ml samples. Run program, first sample @ 08:58 PDT, volume good. "Sample 2 in 00:40:10." Left grab bottles onsite.

❖ **04/28/11 @ 08:45 am PDT**

4230: 07:49 PST, 0.092', 0 cfs
6712: "Program is done." Composite bottle is full. Pump reverse 2 L distilled water, collected equipment from channel, pump count 292,123. Fridge at 4° C, turned fridge warmer and 6712 off.

Grab samples: Taken at 08:50 am PDT.

Field Measurements:	Temperature = 18.8° C	pH = 8.06
DO (%) = 96.1	Conductivity = 398.0 uS	Salinity = 0.2 ppt
DO(mg/L) = 9.00	Specific Conductance = 445.3 uS	

Composite samples: Pulled at 08:50 am PDT.

MO-SPA Santa Paula (11th Street Drain)

❖ **04/27/11 @ 06:45 am PDT (remote)**

2105: Changed enable from always to 4230>0.10' in preparation for "dry" sampling event.

❖ **04/27/11 @ 08:50 am PDT**

4230: 0.001', 0.0 cfs, 0.0 ft/sec,

6712: Positioned clean silicone dam and sandbags in pipe. Flushed line with 2L distilled water. Pump count 576,371. Installed one labeled 18.5 L bottle, lid off. Programmed for short sampling event based on review of previous two weeks which shows ~ 3 hour spike in flow starting ~2 am. Program time-paced sampling event, 5 minutes per sample, 35 samples, 500 ml per sample, repeatable enable, no sample at disable, sample at enable, no delay to start. Refrigerator temperature too high so turned dial colder. Run program: "Program disabled". Left grab bottles onsite.

❖ **04/28/11 @ 07:30 am PDT**

4230: 0.070', 0 cfs, 0.02 ft/sec
6712: "Program is done". Bottle is full. Line flushed with 2 L distilled water. Silicone dam and sandbags removed.
Grab samples: Taken at 07:40 am PDT in artificial pool created by silicone dam.

Field Measurements:	Temperature = 15.2° C	pH = 8.31
DO (%) = 77.9	Conductivity = 140.7 uS	Salinity = 0.1 ppt
DO(mg/L) = 7.84	Specific Conductance = 157.2 uS	

Composite samples: Pulled at 08:00 am PDT.

MO-THO Thousand Oaks (Hill Canyon WWTP)

❖ **04/27/11 @ 09:30 am PDT**

4230: 08:29 PST, 2.200', 2 cfs.
6712: Pump tube count 188,312. Visual pump tube inspection looks good. Pump reverse 2 L distilled water. Battery level at 11.34 V so bypassed the battery. Refrigerator set to 4° C. Installed one labeled 18.5 L bottle, lid off. Program time-paced, 35 samples, 41 min/sample, 500 ml. Run program. Sample one at 09:40 am PDT, volume good. "Sample 2 in 00:39:11." Left grab bottles onsite.

❖ **04/28/11 @ 09:40 am PDT**

4230: 08:40 PST, 2.164', 1 cfs
6712: "Program is done". Bottle full. Pump reverse 2 L distilled water, pump count = 358,030. Turned fridge temp warmer and 6712 off. Battery fully charged.
Grab samples: Taken at 09:45 am PDT.

Field Measurements:	Temperature = 15.6° C	pH = 8.46, 8.42
DO (%) = 105.2	Conductivity = 110.5 uS	Salinity = 0.1 ppt
DO(mg/L) = 10.44	Specific Conductance = 123.8 uS	

Composite samples: Pulled at 09:40 am PDT.

Sample Tracking

❖ Bacteria samples to VCHCA (Maria Belcher):

4/28/11 @ 12:00 PDT by Kelly Hahs, Bill Carey, & Tommy Liddell

❖ Grab and composite samples to Weck Laboratories, Inc.:

4/28/11 @ 15:05 PDT to Weck-provided courier (Osualdo Delmuro from Reliable MS): All grab and composite samples (except MO-MPK composite) by Kelly Hahs, Bill Carey, & Tommy Liddell

❖ Remaining composite sample to Weck Laboratories, Inc.:

NPDES 2010/2011 Event # 5 (Dry)

4/29/11 @ 12:05 PDT to Weck in-house courier (Allan Goldberg) by Kelly Hahs and Bill Carey.

Appendix E. Chain-of Custody Forms

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Bacteriological - VCHCA Lab

Sampling Date: 10/6/10 Sample Event: ~~2010~~ WET EVENT 2010/11 - 1

Sampling Team: K. HAHS, ZOE CARLSON

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	ME-CC		X	X	X	X	X			1	
	ME-SCR		X	X	X	X	X			1	
	ME-VR2	10/6/10 05:00	X	X	X	X	X			1	
	MO-CAM	~~10/6/10~~	X	X		X	X			1	
	MO-OJA	10/6/10 0740	X	X		X	X			1	
	MO-MEI	10/6/10 06:30	X	X		X	X			1	
	MO-VEN	10/6/10 03:10	X	X		X	X			1	
	MD-1	10/6/10 06:30	X	X		X	X			1	

Relinquished Printed Name KELLY HAHS

Signature

Affiliation VCSPD Date/Time 10/6/10 / 0900

Received Printed Name Susan Benandes

Signature

Affiliation Date/Time 10/6/10 0900

Other Notes: All times PDT

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Bacteriological - VCHCA Lab

Sampling Date: 10-6-10 Sample Event: 1 - WET

Sampling Team: A. ANSELM D. THOMAS

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	ME-CC	10-6-10 4:30	X	X	X	X	X			1	
	ME-SCR	5:30	X	X	X	X	X			1	
	~~ME-VR2~~		X	X	X	X	X			1	
	MO-CAM	10-6-10 2:45	X	X		X	X			1	
	~~MO-OJA~~		X	X		X	X			1	
	~~MO-MSI~~		X	X		X	X			1	
	~~MO-VEN~~		X	X		X	X			1	
	~~MD-1~~		X	X		X	X			1	

Relinquished Printed Name DAVID F. THOMAS

Signature David F Thomas

Affiliation VRSD/WPD Date/Time 10-6-10 6:50

Received Printed Name Susan Bernardes

Signature Susan Bernardes

Affiliation _____ Date/Time OCT 6.10 1650

Other Notes: All times PDT

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Bacteriological - VCHCA Lab

Sampling Date: 10-06-10 Sample Event: 1 - WET

Sampling Team: A. ANSELM D. THOMAS

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	~~MO-SPA~~		X	X		X	X			1	
	~~MO-FIL~~		X	X		X	X			1	
	~~MO-SIM~~		X	X		X	X			1	
	~~MO-MPK~~		X	X		X	X			1	
	~~MO-THO~~		X	X		X	X			1	
	MO-OXN	10-6-10 2:15	X	X		X	X			1	
	MO-HUE	" 3:35	X	X		X	X			1	

Relinquished Printed Name: DAVID F. THOMAS

Signature: David F Thomas

Affiliation: VCSD / WPD Date/Time: 10-6-10 6:50

Received Printed Name: SUSAN BENAMES

Signature: Susan Benames

Affiliation: Date/Time: Oct 6 10

Other Notes: All times PDT

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Bacteriological - VCHCA Lab

Sampling Date: 10-6-10 Sample Event: 2010-11-1 (WET)

Sampling Team: WJ CAREY, C. STEPHENS

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	MO-SPA	10-6-10 0800	X	X		X	X			1	
	MO-FIL	10-6-10 0700	X	X		X	X			1	
	MO-SIM	10-6-10 ~~0600~~ 0545	X	X		X	X			1	
	MO-MPK	10-6-10 ~~0446~~ 0430	X	X		X	X			1	
	MO-THO	10-6-10 0316	X	X		X	X			1	
	~~MO-OXN~~		X	X		X	X			1	
	~~MO-HUE~~		X	X		X	X			1	

Relinquished
Printed Name: CHRIS STEPHENS
Signature: Chris Stephens
Affiliation: _____ Date/Time: 10-6-10 0848 HRS

Received
Printed Name: Susan Bernardo
Signature: Susan Bernardo
Affiliation: _____ Date/Time: 10/6/10 0848

Other Notes: All times PDT

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Toxicity - ABC Laboratories

Sampling Date: 10/6/10 Sample Event: EVENT 1 2010/11 WET

Sampling Team: K. HAHS, Z. CARLSON

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
ME-CC		X	X	X	X				2	Note 1, Note 2
ME-SCR					X				1	Note 1, Note 2
ME-VR2	10/6/10 0500	X	X	X	X				2	Note 1, Note 2
MO-CAM						X			2	Note 1, Note 2
MO-OJA	10/6/10 0740					X			2	Note 1, Note 2
MO-MEI	10/6/10 0630					X			2	Note 1, Note 2
MO-VEN	10/6/10 0310						X		1	Note 1, Note 2
~~MD-1~~										

Relinquished Printed Name KELLY HAHS

Signature Kelly Hahs

Affiliation VCWPD Date/Time 10/6/10 / 0830

Received Printed Name Joe Freas

Signature

Affiliation ABC Labs Date/Time 10/6/10 0830

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% All times PDT

Note 2: Please execute TIE if mortality > 50%

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Toxicity - ABC Laboratories

Sampling Date: 10-6-2010 Sample Event: 2010-11-1 (WET)

Sampling Team: WJB CAREY, C. STEPHENS

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
~~MO-OXN~~						X	X	X	2	Note 1, Note 2
~~MO-HUE~~						X	X	X	2	Note 1, Note 2
MO-THO	10-6-10 0816					X	X	X	2	Note 1, Note 2
MO-MPK	10-6-10 0930					X	X	X	2	Note 1, Note 2
MO-SIM	10-6-10 0545					X	X	X	2	Note 1, Note 2
MO-FIL	10-6-10 0700					X	X	X	2	Note 1, Note 2
MO-SPA	10-6-10 0800					X	X	X	2	Note 1, Note 2

Relinquished Printed Name CHRIS STEPHENS

Signature

Affiliation UCWPP Date/Time 10-6-10

Received Printed Name ELIZABETH MATHIEU

Signature

Affiliation AQUATIC BIOASSAY Date/Time 10/6/10 0925

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% All times PDT

Note 2: Please execute TIE if mortality > 50%

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Toxicity - ABC Laboratories

Sampling Date: 10-6-10 Sample Event: 1- WET

Sampling Team: A. ANSELM, D. THOMAS

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
MO-OXN	10.6.10 2:15					X	X	X	2	Note 1, Note 2
MO-HUE	" 3:35					X	X	X	2	Note 1, Note 2
~~MO-THO~~						X	X	X	2	Note 1, Note 2
~~MO-MPK~~						X	X	X	2	Note 1, Note 2
~~MO-SIM~~						X	X	X	2	Note 1, Note 2
~~MO-FIL~~						X	X	X	2	Note 1, Note 2
~~MO-SPA~~						X	X	X	2	Note 1, Note 2

Relinquished Printed Name DAVID F. THOMAS

Signature David F Thomas

Affiliation VRSO/ WPD Date/Tim 10.6.10 7:15

Received Printed Name JOEL DE GOTE

Signature

Affiliation ABC Date/Tim 10.06.10 0715

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% All times PDT

Note 2: Please execute TIE if mortality > 50%

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Toxicity - ABC Laboratories

Sampling Date: 10.6.10 Sample Event: 1-WET

Sampling Team: A. ANSELM, D. THOMAS

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
ME-CC	10-6-10 4:30	X	X	X	X				2	Note 1, Note 2
ME-SCR	" 5:30				X				1	Note 1, Note 2
~~ME-VR2~~		X	X	X	X				2	Note 1, Note 2
MO-CAM	" 2:45					X			2	Note 1, Note 2
~~MO-OJA~~						X			2	Note 1, Note 2
~~MO-MEI~~						X			2	Note 1, Note 2
~~MO-VEN~~							X		1	Note 1, Note 2
~~MD-1~~										

Relinquished Printed Name DAVID F. THOMAS

Signature David F Thomas

Affiliation VCSD/ WPD Date/Tim 10.6.10 7:15

Received Printed Name NOEL DE JESUS

Signature

Affiliation ABC Date/Tim 10.06.10 0715

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% All times PDT

Note 2: Please execute TIE if mortality > 50%

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

0J0612O

Grabs - Weck Laboratories

2010/11-1 (WET)

Sampling Date: 10/6/10 Sample Event: ~~WET EVENT 2010/11-1~~

Sampling Team: ~~K. HAYS, R. CARLSON, ANSELM~~, (see over page)

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits	Mercury (EPA 245.1)								Number of Bottles	NOTES
ME-CC	10/6/10 0430	3	1	3	1									8	
ME-SCR	10/6/10 0530	3	1	3	1									8	
ME-VR2	10/6/10 0500	3	1	3	1									8	
MO-CAM	10/6/10 0245	3	1	3	1									8	
MO-OJA	10/6/10 0740	3	1	3	1	1								9	
MO-MEI	10/6/10 0630	3	1	3	1	1								9	
MO-VEN	10/6/10 0310	3	1	3	1									8	
MD-1	10/6/10 0630	3	1	3	1									8	

Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished Printed Name

Signature Page One of Two (see over)

Affiliation Date/Time

Received Printed Name

Signature

Affiliation Date/Time

Other Notes: Please run 524.2 on travel blanks only if constituents detected in orginal analysis

All times PDT

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

05/06/20

Grabs - Weck Laboratories

Sampling Date: 10/6/10 Sample Event: 2010/11 - 1 (WET)

Sampling Team: K. HAHS, Z. CARLSON, W. CAREY, C. STEPHENS, A. ANSELM, D. THOMAS

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits								Number of Bottles	NOTES
MO-SPA	10/6/10 0800	3	1	3	1								8	
MO-FIL	10/6/10 0700	3	1	3	1								8	
MO-SIM	10/6/10 0545	3	1	3	1								8	
MO-MPK	10/6/10 0430	3	1	3	1								8	
MO-THO	10/6/10 0316	3	1	3	1								8	
MO-OXN	10/6/10 02:15	3	1	3	1								8	
MO-HUE	10/6/10 03:35	3	1	3	1								8	

Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished Printed Name KELLY HAHS

Signature

Affiliation VCWPD Date/Time 10/6/10 15:30

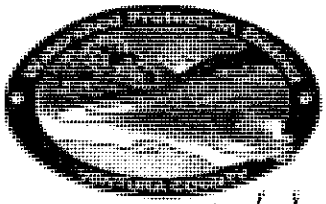
Received Printed Name Amir Levy

Signature

Affiliation Reliable Date/Time

Other Notes: Please run 524.2 on travel blanks only if constituents detected in orginal analysis

All times PDT



Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Composites - Weck Laboratories

0J0619

Sampling Date: 10/6/10 Sample Event: 2010/11 - 1 (WET)

Sampling Team: T. LIODELL, K. HAHS

SAMPLE ID	DATE/TIME COLLECTED	Barium, total	Chlorine Residual	NO3-N	Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
~~ME-CC~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~ME-SCR~~		~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~ME-VR2~~				~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
MO-CAM	10/6/10 15:00				X	X	X	X	X	X	X	X	X	1	
MO-OJA	10/6/10 12:30			X	X	X	X	X	X	X	X	X	X	1	
MO-MEI	10/6/10 12:48			X	X	X	X	X	X	X	X	X	X	1	
MO-VEN	10/6/10 13:25				X	X	X	X	X	X	X	X	X	1	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished Printed Name

Signature PAGE ONE OF TWO (see Reverse)

Affiliation Date/Time

Received Printed Name

Signature

Affiliation Date/Time

Other Notes: All times PDT

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Composites - Weck Laboratories

DJ06119

Sampling Date: (see side one) Sample Event:

Sampling Team:

SAMPLE ID	DATE/TIME COLLECTED				Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
~~MO-SPA~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-FIL~~					~~X~~	~~X~~	~~X~~	~~X~~	X	X	X	X	X	1	
~~MO-SIM~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-MPK~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-THO~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
MO-OXN	10/6/10 13:40				X	X	X	X	X	X	X	X	X	1	
~~MO-HUE~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished
Printed Name: KELLY HAYES
Signature:
Affiliation: VCWPD Date/Time: 10/6/10 / 15:30

Received
Printed Name: Amir Levy
Signature:
Affiliation: Reliable Date/Time:

Other Notes: All times PDT

DJO 7096

Side 2 of 2

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Composites - Weck Laboratories

Sampling Date: 10/7/10 Sample Event: 2010/11-1 (WET)

Sampling Team: K. HAHS, W.B. CAREY

SAMPLE ID	DATE/TIME COLLECTED				Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
MO-SPA	10/7/10 0840				X	X	X	X	X	X	X	X	X	1	
MO-FIL	10/7/10 0905				X	X	X	X	X	X	X	X	X	1	
MO-SIM	10/7/10 1000				X	X	X	X	X	X	X	X	X	1	
MO-MPK	10/7/10 0935				X	X	X	X	X	X	X	X	X	1	
MO-THO	10/7/10 1030				X	X	X	X	X	X	X	X	X	1	
~~MO-OXN~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
MO-HUE	10/7/10 1140				X	X	X	X	X	X	X	X	X	1	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 62SCTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished Printed Name KELLY HAHS

Signature

Affiliation VCWPD Date/Time 10/7/10

Received Printed Name

Signature

Affiliation Date/Time

Other Notes: All times PDT

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Composites - Weck Laboratories

0J07096

Sampling Date: 10/7/10 Sample Event: 2010/11-1 (WET)

Sampling Team: K. HAHS, WB CAREY

SAMPLE ID	DATE/TIME COLLECTED	Barium, total	Chlorine Residual	NO3-N	Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-CC	10/7/10 1112	X	X	X	X	X	X	X	X	X	X	X	X	1	
ME-SCR	10/7/10 1300	X			X	X	X	X	X	X	X	X	X	1	
ME-VR2	10/7/10 1220			X	X	X	X	X	X	X	X	X	X	1	
~~MO-CAM~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-OJA~~				~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-MBL~~				~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-VEN~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished Printed Name

Signature See Side 2 (on reverse)

Affiliation Date/Time

Received Printed Name Brandon Ramirez

Signature

Affiliation R.W.S. Date/Time 10/7 3:05

Other Notes: All times PDT

Chain of Custody Record
Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Equipment - Weck Laboratories

Sampling Date: 10/6/10 Sample Event: 2010/11-1 (WET)

Sampling Team: K. HAHS T. LIDDELL

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	Quantities of Waste for disposal	No action required	NOTES
18.5 L carboy and lid	3	2	1	1	Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
~~10 L pickle jars and lids~~					~~Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.~~
Blue cube cooler				5	
Black bags				5	
~~Clear plastic storage containers with red lids~~					

Relinquished Printed Name KELLY HAHS

Signature

Affiliation VCWPD Date/Time 10/6/10 15:30

Received Printed Name Amir Levy

Signature

Affiliation Reliable Date/Time

Other Notes: * Please clean with detergent, nitric, and methanol and **do not** rinse after methanol step (allow to air dry after methanol cleaning to avoid organics contamination). Record which bottles were cleaned with methanol.

All times PDT

Chain of Custody Record
Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Equipment - Weck Laboratories

Sampling Date: 10/7/10 Sample Event: 2010/11-1 (WET)

Sampling Team: K. HAHS, WB CAREY

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES
18.5 L carboy and lid	9				Please place tape or plastic bag over top ~~and note on wrap if bottle was cleaned with methanol~~
Blue cube cooler	~~9~~		9		
Black bags	~~9~~		9		

Relinquished Printed Name KELLY HAHS

Signature [signature]

Affiliation VCWPD Date/Time 10/7/10

Received Printed Name Brandon Ramirez

Signature [signature]

Affiliation R.M.S Date/Time 3:05 PM 10/7

Other Notes: * Please clean with detergent, nitric, and methanol and **do not** rinse after methanol step (allow to air dry after methanol cleaning to avoid organics contamination). Record which bottles were cleaned with methanol.

All times PDT

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Bacteriological - VCHCA Lab

Sampling Date: 10/30/10 Sample Event: 2010/11-2 (WET)

Sampling Team: K. HAHS, C. STEPHENS

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	~~MO-SPA~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	
	~~MO-FIL~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	
	~~MO-SIM~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	
	~~MO-MPK~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	
	~~MO-THO~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	
	~~MO-ORN~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	
	MO-HUE	10/30/10 0640	X	X		X	X			1	

Relinquished Printed Name: KELLY HAHS

Signature: Kelly Hahs

Affiliation: VCWPD Date/Time: 10/30/10 / 0730

Received Printed Name: Susan Benander

Signature: Susan Benander

Affiliation: PHL Date/Time: 10/30/10 0730

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Bacteriological - VCHCA Lab

Sampling Date: 10/30/10 Sample Event: 2010/11 WY-2 (WET)

Sampling Team: K. HAHS, C. STEPHENS

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	~~ME-CC~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~4~~	
	ME-SCR	0530	X	X	X	X	X			1	
	ME-VR2	0420	X	X	X	X	X			1	
	~~MC-[illegible]~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	
	~~MC-SFA~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	
	~~MC-MS~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	
	~~MC-[illegible]~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	
	~~MC-[illegible]~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	

Relinquished Printed Name: KELLY HAHS

Signature: Kelly Hahs

Affiliation: VCWPD Date/Time: 10/30/10 0730

Received Printed Name: Susan Bernardo

Signature: S Bernardo

Affiliation: DHLab Date/Time: 10/30/10 0730

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Bacteriological - VCHCA Lab

Sampling Date: 10-30-10 Sample Event: #2 WET

Sampling Team: A.A. D.T.

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	~~MO-SPA~~		X	X		X	X			1	
	~~MO-FIL~~		X	X		X	X			1	
	~~MO-SIM~~		X	X		X	X			1	
	~~MO-MPK~~		X	X		X	X			1	
	MO-THO	10-30-10 5:00	X	X		X	X			1	
	MO-OXN	" 3:40	X	X		X	X			1	
	~~MO-HUE~~		X	X		X	X			1	

Relinquished Printed Name: DAVID F. THOMAS

Signature: David F Thomas

Affiliation: VRSD/VCWPD Date/Time: 10.30.10 6:45

Received Printed Name: Silvia Fernandez

Signature: S. Fernandez

Affiliation: PH Lab Date/Time: 10/30/10 6:45

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Bacteriological - VCHCA Lab

Sampling Date: 10·30·10 Sample Event: #2 WET

Sampling Team: AA DT

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	ME-CC	10-30-10 05:45	X	X	X	X	X			1	
	~~ME-SCR~~		X	X	X	X	X			1	
	~~ME-VR2~~		X	X	X	X	X			1	
	MO-CAM	10-30-10 04:20	X	X		X	X			1	
	~~MO-OJA~~		X	X		X	X			1	
	~~MO-MEI~~		X	X		X	X			1	
	~~MO-VEN~~		X	X		X	X			1	
	~~MD-1~~		X	X		X	X			1	

Relinquished Printed Name DAVID F. THOMAS

Signature David F Thomas

Affiliation VCSD/VCWPD Date/Time 10·30·10 6:45

Received Printed Name Susan Bernardo

Signature S Bernardo

Affiliation PACLabs Date/Time 10/30/10 645

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Bacteriological - VCHCA Lab

Sampling Date: 10/30/10 Sample Event: EVENT 2

Sampling Team: WBC / DJP

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	ME-CC		X	X	X	X	X			1	
	ME-SCR		X	X	X	X	X			1	
	ME-VR2		X	X	X	X	X			1	
	MO-CAM		X	X		X	X			1	
	MO-OJA		X	X		X	X			1	
	MO-MEI		X	X		X	X			1	
	MO-VEN	10/30/10 03:37 PDT	X	X		X	X			1	
	MD-1		X	X		X	X			1	

Relinquished Printed Name: DAVID PANARO

Signature: David Panaro

Affiliation: VCWPD Date/Time: 10-30-10 08:00 PDT

Received Printed Name: Susan Benaide

Signature: Susan Benaide

Affiliation: PHLab Date/Time: 10/30/10 0800

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Bacteriological - VCHCA Lab

Sampling Date: 10/30/10 Sample Event: EVENT 2

Sampling Team: WBC / DJP

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	MO-SPA	10/30/10 04:42 PDT	X	X		X	X			1	
	MO-FIL	10/30/10 05:30 PDT	X	X		X	X			1	
	MO-SIM	10/30/10 06:31 PDT	X	X		X	X			1	
	MO-MPK	10/30/10 07:14 PDT	X	X		X	X			1	
	MO-THO	—	X	X		X	X			1	
	MO-OXN	—	X	X		X	X			1	
	MO-HUE	—	X	X		X	X			1	

Relinquished — Printed Name: DAVID PANARO

Signature: David Panaro

Affiliation: VCWPD Date/Time: 10-30-10 08:00 PDT

Received — Printed Name: Susan Bernardo

Signature: Susan Bernardo

Affiliation: PHLab Date/Time: 10/30/10 0800

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

OKD1003.

Grabs - Weck Laboratories (PAGE 1 of 2)

Sampling Date: 10/30/10 Sample Event: 2010/11-2 (WET)

Sampling Team: K. HAHS, C. STEPHENS, WB CAREY, D. PANARO, A. ANSELM, D. THOMAS

Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits	Mercury (EPA 245.1)								Number of Bottles	NOTES
ME-CC	10/30/10 05:45	3	1	3	1									8	
ME-SCR	10/30/10 0530	3	1	3	1									8	
ME-VR2	10/30/10 0420	3	1	3	1									8	
MO-CAM	10/30/10 0420	3	1	3	1									8	
MO-OJA	— *	~~3~~	~~1~~	~~3~~	~~1~~	~~1~~								~~9~~	
MO-MEI	— *	~~3~~	~~1~~	~~3~~	~~1~~	~~1~~								~~9~~	
MO-VEN	10/30/10 03:27	3	1	3	1									8	
MD-1	— *	~~3~~	~~1~~	~~3~~	~~1~~									~~8~~	0.4°C
															[signature] 10/30/10 16:45

Relinquished Printed Name KELLY HAHS

Signature [signature]

Affiliation VCWPD Date/Time 10/30/10 1420

Received Printed Name [signature]

Signature [signature]

Affiliation Date/Time 10-30-10 1420

Other Notes: Please run 524.2 on travel blanks only if constituents detected in orginal analysis

* Please do not analyze MO-OJA, MO-MEI, and MD-1 (dash and INVALID [illegible])

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Grabs - Weck Laboratories (PAGE 2 of 2)

Sampling Date: 10/30/10 Sample Event: 2010/11 - 2 (WET)

Sampling Team: (see page one) - turnover

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits									Number of Bottles	NOTES
MO-SPA	10/30/10 04:42	3	1	3	1									8	
MO-FIL	10/30/10 05:30	3	1	3	1									8	
MO-SIM	10/30/10 06:31	3	1	3	1									8	
MO-MPK	10/30/10 07:17	3	1	3	1									8	
MO-THO	10/30/10 05:00	3	1	3	1									8	
MO-OXN	10/30/10 03:40	3	1	3	1									8	
MO-HUE	10/30/10 0640	3	1	3	1									8	

Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished Printed Name KELLY HAHS

Signature

Affiliation VCWPD Date/Time 10/30/10 / 1420

Received Printed Name

Signature

Affiliation Date/Time 10-30-10 1470

Other Notes: Please run 524.2 on travel blanks only if constituents detected in orginal analysis

(All times PDT)

OK01002

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

COPY

Composites - Weck Laboratories (PAGE 1 of 2)

Sampling Date: 10/30/10 Sample Event: EVENT 2 2010/11-2 (WET)

Sampling Team: 10/30/10 KH/DP 10/31/10 KH (TL/KH @ SCR)

SAMPLE ID	DATE/TIME COLLECTED	Barium, total	Chlorine Residual	NO3-N	Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-CC	10/[illegible] 0940	X	X	X	X	X	X	X	X	X	X	X	X	1	10/31/10 0940
ME-SCR	—	X			X	X	X	X	X	X	X	X	X	1	10/31/10 1025
ME-VR2	10/30/10 09:00 PDT			X	X	X	X	X	X	X	X	X	X	1	
MO-CAM	10/30/10 11:45 PDT				X	X	X	X	X	X	X	X	X	1	
MO-OJA	—			X	X	X	X	X	X	X	X	X	X	1	
MO-MEI	—			X	X	X	X	X	X	X	X	X	X	1	
MO-VEN	10/30/10 12:30 PDT				X	X	X	X	X	X	X	X	X	1	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished
Printed Name: KELLY HAHS
Signature: Kelly Hahs
Affiliation: VCWPD Date/Time: 10/30/10 / 14:20

Received
Printed Name: [illegible]
Signature: [illegible]
Affiliation: Date/Time: 10-30-10 / 14:20

Other Notes: 10/31/10 Simon
Rms courier Kelly Hahs 10/31/10 / Jaime Posadas
11:35

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Composites - Weck Laboratories (PAGE 2 of 2)

Sampling Date: 10/30/10 Sample Event: EVENT 2 2010/11-2 (WET)

Sampling Team: KH/DP

SAMPLE ID	DATE/TIME COLLECTED				Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
MO-SPA	10/30/10 09:40 PDT				X	X	X	X	X	X	X	X	X	1	
MO-FIL	"				X	X	X	X	X	X	X	X	X	1	10/31/10 0815
MO-SIM	10/30/10 10:40 PDT				X	X	X	X	X	X	X	X	X	1	
MO-MPK	10/30/10 10:15 PDT				X	X	X	X	X	X	X	X	X	1	
MO-THO	10/30/10 11:10 PDT				X	X	X	X	X	X	X	X	X	1	
MO-OXN	10/30/10 12:10PDT				X	X	X	X	X	X	X	X	X	1	
MO-HUE	"				X	X	X	X	X	X	X	X	X	1	10/31/10 0910

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished Printed Name [signature] (Kelly Hicks VCWPD)

Signature [signature]

Affiliation VCWPD Date/Time 10/30/10

Received Printed Name

Signature

Affiliation Date/Time 10-30-10 14:20

Other Notes:

Chain of Custody Record

Ventura County Watershed Protection District OK0100 1

NPDES Stormwater Monitoring Program

Composites - Weck Laboratories (PAGE 2 of 2)

Sampling Date: 10-~~30~~31-10 Sample Event: ~~EVENT #2~~ 2010/11-2 (WET)

Sampling Team: ~~EA TE~~ K. HAHS

SAMPLE ID	DATE/TIME COLLECTED				Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
~~MO-SPA~~					X	X	X	X	X	X	X	X	X	1	
-1 MO-FIL	10/31/10 08:15				X	X	X	X	X	X	X	X	X	1	
~~MO-SIM~~					X	X	X	X	X	X	X	X	X	1	
~~MO-MPK~~					X	X	X	X	X	X	X	X	X	1	
~~MO-THO~~					X	X	X	X	X	X	X	X	X	1	Received on ice at 1.6°C
~~MO-OXN~~					X	X	X	X	X	X	X	X	X	1	
-2 MO-HUE	10/31/10 0910				X	X	X	X	X	X	X	X	X	1	
~~MO-CAM~~					X	X	X	X	X	X	X	X	X	1	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished
Printed Name: KELLY HAHS
Signature: [signature]
Affiliation: VCWPD Date/Time: 10/31/10 / 11:35

Received
Printed Name: Jaime Posadas
Signature: [signature]
Affiliation: Moorlee Date/Time: 10/31/10 11:35

Other Notes: Relinquished by Jaime Posadas 10/31/10
Received by MFreebern 1323

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Equipment - Weck Laboratories

Sampling Date: 10/~~31~~/10 Sample Event: 2010/11-2 (WET)

Sampling Team: K. HAHS

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES
18.5 L carboy and lid	4				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Blue cube cooler			4		
Black bags	4		4		
					Received on ICE
					at 2°C

Relinquished Printed Name KELLY HAHS

Signature

Affiliation VCWPD Date/Time ~~10/31/10~~ 10/31/10 11:35

Received Printed Name Jaime Posadas

Signature

Affiliation Courier Date/Time 10/31/10 11:35

Other Notes: * Please clean with detergent, nitric, and methanol and **do not** rinse after methanol step (allow to air dry after methanol cleaning to avoid organics contamination). Record which bottles were cleaned with methanol.

Relinquished by Jaime Posadas courier
Received by Alfredo Pierri 10/31/10 1323

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Equipment - Weck Laboratories

Sampling Date: 11/2/10 Sample Event: Cleaning (2010/11-2(WET)

Sampling Team: K. HAHS

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES
18.5 L carboy and lid		2			Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Blue cube cooler			2		
Black bags			2		

Relinquished Printed Name KELLY HAHS

Signature

Affiliation VCWPD Date/Time 11/2/10 / 15:55

Received Printed Name ALLAN GOLDBERG

Signature

Affiliation WECK LABS Date/Time 11/2/10 1555

Other Notes: * Please clean with detergent, nitric, and methanol and **do not** rinse after methanol step (allow to air dry after methanol cleaning to avoid organics contamination). Record which bottles were cleaned with methanol.

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Bacteriological - VCHCA Lab

Sampling Date: 11/20/10 Sample Event: 3 (WET)

Sampling Team: T. LIDDELL, WB CAREY

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	MO-OJA	11/20/10 0745	X	X		X	X			1	
	MO-MEI	11/20/10 0645	X	X		X	X			1	
	MD-1	11/20/10 0645	X	X		X	X			1	
	~~MB-1~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	

Relinquished Printed Name: TOMMY LIDDELL

Signature: [signature]

Affiliation: VCWPD Date/Time: 11/20/10 0840

Received Printed Name: [illegible]

Signature: [signature]

Affiliation: PH Lab Date/Time: 11/20/10 0840

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Grabs - Weck Laboratories

Sampling Date: 11/20/10 Sample Event: 3 (WET)

Sampling Team: T. LIDDELL, WB CAREY

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits	Mercury (EPA 245.1)							Number of Bottles	NOTES
MO-OJA	11/20/10 0745	3	1	3	1	1							9	
MO-MEI	11/20/10 0645	3	1	3	1	1							9	
MD-1	11/20/10 0645	3	1	3	1								8	
~~MB-1~~						1							1	

Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished Printed Name TOMMY LIDDELL

Signature T Liddell

Affiliation VCWPD Date/Time 11/21/10 0915

Received Printed Name [illegible]

Signature [illegible]

Affiliation Reliable messenger Date/Time 11-21-10 0915

Other Notes: Please run 524.2 on travel blanks only if constituents detected in orginal analysis

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Composites - Weck Laboratories

Sampling Date: 11/20/10 Sample Event: 3 (WET)

Sampling Team: T. LIDDELL

SAMPLE ID	DATE/TIME COLLECTED	Barium, total	Chlorine Residual	NO3-N	Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
MO-OJA	11/21/10 0740			X	X	X	X	X	X	X	X	X	X	1	
MO-MEI	11/21/10 0805			X	X	X	X	X	X	X	X	X	X	1	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished Printed Name TOMMY LIDDELL

Signature

Affiliation VCWPD Date/Time 11/21/10 0915

Received Printed Name

Signature

Affiliation Reliable messenger Date/Time 11-21-10 0915

Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Equipment - Weck Laboratories

Sampling Date: 11/20/10 Sample Event: 3 (WET)

Sampling Team: T. LIDDELL, WB CAREY

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES
18.5 L carboy and lid		2			Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Blue cube cooler			2		
Black bags			2		

Relinquished Printed Name T. LIDDELL

Signature T. Liddell

Affiliation VCWPD Date/Time 11/21/10 0915

Received Printed Name Amber Lewis

Signature Amber Lewis

Affiliation Reliable messenger Date/Time 11-21-10 0915

Other Notes: * Please clean with detergent, nitric, and methanol and **do not** rinse after methanol step (allow to air dry after methanol cleaning to avoid organics contamination). Record which bottles were cleaned with methanol.

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Bacteriological - VCHCA Lab (SIDE 1 of 2)

Sampling Date: 02-16-2011 Project Number: 2010/11-4 (Wet) ~~Grabs~~

Sampling Team: D. THOMAS A. ANSELM

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	ME-CC	2-16-11 07:05	X	X	X	X	X			1	
	~~ME-SCR~~		X	X	X	X	X			1	
	~~ME-VR2~~		X	X	X	X	X			1	
	MO-CAM	2-16-11 05:30	X	X		X	X			1	
	~~MO-OTA~~		X	X		X	X			1	
	~~MO-MEL~~		X	X		X	X			1	
	~~MO-VEN~~		X	X		X	X			1	
	~~ME-1~~		X	X		X	X			1	

Relinquished Printed Name: DAVID F. THOMAS

Signature: David F Thomas

Affiliation: VCWPD/VHSD Date/Time: 02-16-11 08:40

Received Printed Name: Susan Bena

Signature: SB

Affiliation: PH Lab Date/Time: 02/16/11 0840

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Bacteriological - VCHCA Lab (SIDE 2 of 2)

Sampling Date: 02-16-2011 Project Number: 2010/11-4 (Wet) [redacted]

Sampling Team: D. THOMAS, A. ANSELM

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	~~MO-SPA~~		X	X		X	X			1	
	~~MO-HE~~		X	X		X	X			1	
	~~MO-SIM~~		X	X		X	X			1	
	~~MO-MPK~~		X	X		X	X			1	
	~~MO-THO~~	02-16-11 06:15	X	X		X	X			1	
	MO-OXN	02-16-11 04:40	X	X		X	X			1	
	MO-HUE	02-16-11 07:40	X	X		X	X			1	

Relinquished Printed Name: DAVID F. THOMAS

Signature: David F Thomas

Affiliation: VCWPD/ VRSD Date/Time: 02-16-11 08:40

Received Printed Name: Susan Bernardy

Signature: Susan Bernard

Affiliation: 02/16/11 VHC Date/Time: 2/16/11 0840

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Bacteriological - VCHCA Lab (SIDE 1 of 2)

Sampling Date: 2/16/11 Project Number: 2010/11-4 (Wet)

Sampling Team: K. HAHS, B. COUNCIL

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	ME-CC	←	X	X	X	X	X			1	
	ME-SCR	2/16/11 0855	X	X	X	X	X			1	
	ME-VR2	2/16/11 0540	X	X	X	X	X			1	
	MO-CAM	—	X	X		X	X			1	
	MO-OJA	2/16/11 0735	X	X		X	X			1	
	MO-MEI	2/16/11 0650	X	X		X	X			1	
	MO-VEN	2/16/11 0430	X	X		X	X			1	
	MB-1	2/16/11 0650	X	X		X	X			1	

Relinquished — Printed Name: KELLY HAHS

Signature:

Affiliation: VCWPD Date/Time: 2/16/11 / 10:05

Received — Printed Name: SUSAN BENAVIDES

Signature:

Affiliation: PHLab Date/Time: 02/16/11 1005

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Bacteriological - VCHCA Lab (SIDE 2 of 2)

Sampling Date: 2/16/11 Project Number: 2010/11-4 (Wet) ~~Dry~~

Sampling Team: Bill Carey + Jason Siegert

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	MO-SPA	2/16/11 04:42	X	X		X	X			1	
	MO-FIL	2/16/11 05:45	X	X		X	X			1	
	MO-SIM	2/16/11 06:45	X	X		X	X			1	
	MO-MPK	2/16/11 07:15	X	X		X	X			1	
	~~MO-THO~~	~~2/16/11~~	~~X~~	~~X~~		~~X~~	~~X~~			1	
	~~MO-OXN~~	~~2/16/11~~	~~X~~	~~X~~		~~X~~	~~X~~			1	NS
	~~MO-HUE~~	~~2/16/11~~	X	X		X	X			1	

Relinquished Printed Name: Jason Siegert

Signature: Jason Siegert

Affiliation: Date/Time: 2/16/11 08:10

Received Printed Name: Susan Bonardi

Signature: Susan Bona

Affiliation: PH Lab Date/Time: 2/16/11 0810

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season

Grabs - Weck Laboratories (SIDE 1 of 2)

1B1709 1

Sampling Date: 02-16-2011 Project Number: 2010/11-4 (Wet) Grabs

Sampling Team: D. THOMAS, A. ANSELM

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits	Mercury (EPA 245.1)								Number of Bottles	NOTES
ME-CC	02-16-11 07:05	3	1	3	1									8	
~~ME-SCR~~		3	1	3	1									8	
~~ME-VR2~~		3	1	3	1									8	
MO-CAM	02-16-11 05:30	2/3	1	3	1									7/8	
~~MO-OJA~~		3	1	3	1	1								9	
~~MO-MEI~~		3	1	3	1	1								9	
~~MO-VEN~~		3	1	3	1									8	
MB-1						1								1	

Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished Printed Name

Signature

Affiliation Date/Time

Received Printed Name

Signature

Affiliation Date/Time

Other Notes: Please run 524.2 on travel blanks only if constituents detected in orginal analysis

James Ormer 2/17/11 1420 2.3°C

See other side

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program 1B17091
Project: NPDES Stormwater Wet Season
Grabs - Weck Laboratories (SIDE 2 of 2)

Sampling Date: 02-16-11 Project Number: 2010/11-4 (Wet) Grabs

Sampling Team: D. THOMAS, A. ANSELM

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits								Number of Bottles	NOTES
~~MO-SPA~~		3	1	3	1								8	
~~MO-FHL~~		3	1	3	1								8	
~~MO-SIM~~		3	1	3	1								8	
~~MO-MPK~~		3	1	3	1								8	
MO-THO	02-16-11 06:15	2/8	1	3	1								7/8	
MO-OXN	02-16-11 04:40	2/8	1	3	1								7/8	
MO-HUE	02-16-11 07:40	2/8	1	3	1								7/8	

Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished Printed Name KELLY HAHS

Signature

Affiliation VCWPD Date/Time 2/17/11 / 14:15

Received Printed Name Jorge Nuila

Signature

Affiliation Calpeake Date/Time

Other Notes: Please run 524.2 on travel blanks only if constituents detected in orginal analysis

JamesGomez 2/17/11 1620 2.3L

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Grabs - Weck Laboratories (SIDE 1 of 2)

1B17090

Sampling Date: _____ Project Number: 2010/11-4 (Wet) Grabs

Sampling Team: _____

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits	Mercury (EPA 245.1)								Number of Bottles	NOTES
~~ME-CC~~		3	1	3	1									8	
ME-SCR	2/16/11 0855	3	1	3	1									8	
ME-VR2	2/16/11 0540	2	1	3	1									7	
~~MO-CAM~~		3	1	3	1									8	
MO-OJA	2/16/11 0735	2	1	3	1	1								8	
MO-MEI	2/16/11 0650	2	1	3	1	1								8	mercury sample bottle needs preservative
MO-VEN	2/16/11 0430	3	1	3	1									8	
MB-1	2/16/11 0650					1								1	

Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished
Printed Name KELLY HAHS
Signature
Affiliation VCWPD Date/Time 2/17/11 / 14:15

Received
Printed Name Jorge Nuila
Signature
Affiliation Corporate Date/Time

Other Notes: Please run 524.2 on travel blanks only if constituents detected in orginal analysis.

COURIER

JaimeGmez 2/17/11 1620 2.3°C

PICK UP

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Grabs - Weck Laboratories (SIDE 2 of 2)

1B17090

Sampling Date: 2/16/11 Project Number: 2010/11-4 (Wet) Grabs

Sampling Team: Bill Carey & Jason Siegel

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits	EPA 625								Number of Bottles	NOTES
MO-SPA	2/16/11 0442	3	1	3	1									8	
MO-FIL	2/16/11 0545	3	1	3	1									8	
MO-SIM	2/16/11 0645	3	1	3	1									8	
MO-MPK	2/16/11 0715	3	1	3	1	1								8	
MO-THO		3	1	3	1									8	
~~MO-OXN~~		3	1	3	1									8	16
~~MO-HUE~~		3	1	3	1									8	

Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished
Printed Name: KELLY HAHS
Signature: [signature]
Affiliation: VCWPD Date/Time: 2/17/11 14:15

Received
Printed Name: Jorge Nuila
Signature: [signature]
Affiliation: Calgrove Date/Time:

Other Notes: Please run 524.2 on travel blanks only if constituents detected in orginal analysis

COURIER

Jaime Gomez 2/17/11 1620 2.3°C

PICK UP

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Composites - Weck Laboratories (SIDE 1 of 2)

1BA088

Sampling Date: 2/17/11 Project Number: 2010/11-4 (Wet) Composites

Sampling Team: K. HAHS, T. LIDDELL

SAMPLE ID	DATE/TIME COLLECTED	Barium, total	Chlorine Residual	NO3-N	Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-CC	2/17/11 0837	X	X	X	X	X	X	X	X	X	X	X	X	1	
~~ME-SGR~~	~~2/17/11 0950~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~ME-VR2~~	~~2/17/11 1216~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
MO-CAM	2/17/11 0900				X	X	X	X	X	X	X	X	X	1	
~~MO-OJA~~	~~2/17/11 1123~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-MEI~~	~~2/17/11 1148~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	X	X	X	X	1	
~~MO-VEN~~	~~2/17/11 1045~~				~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished
Printed Name: KELLY HAHS
Signature:
Affiliation: VCWPD Date/Time: 2/17/11 1415

Received
Printed Name: Jorge Nuila COURIER
Signature:
Affiliation: Corporate Date/Time: PICK UP

Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.

James Gimer 2/17/11 16:20 1.2°C

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program 1B19088
Project: NPDES Stormwater Wet Season
Composites - Weck Laboratories (SIDE 2 of 2)

Sampling Date: 2/17/11 Project Number: 2010/11-4 (Wet) Composites

Sampling Team: K. HAHS, T. LIDDELL

SAMPLE ID	DATE/TIME COLLECTED				Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
MO-SPA	2/17/11 0605				X	X	X	X	X	X	X	X	X	1	
MO-FIL	2/17/11 0630				X	X	X	X	X	X	X	X	X	1	
MO-SIM	2/17/11 0730				X	X	X	X	X	X	X	X	X	1	
MO-MPK	2/17/11 0703				X	X	X	X	X	X	X	X	X	1	
MO-THO	2/17/11 0804				X	X	X	X	X	X	X	X	X	1	
~~MO-OXN~~	~~2/17/11 1027~~				~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-HUE~~	~~2/17/11 1332~~				~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished Printed Name KELLY HAHS

Signature

Affiliation VCWPD Date/Time 2/17/11 / 1415

Received Printed Name Jorge Nuila

Signature

Affiliation Edmonds Date/Time

Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.

Jorge Nuila 2/17/11 16:20 1.2°C

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program 1B17089
Project: NPDES Stormwater Wet Season
Composites - Weck Laboratories (SIDE 1 of 2)

Sampling Date: 2/17/11 Project Number: 2010/11-4 (Wet) Composites

Sampling Team: K. HAHS, T. LIDDELL

SAMPLE ID	DATE/TIME COLLECTED	Barium, total	Chlorine Residual	NO3-N	Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl⁻ (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-CPAH-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
~~ME-SC~~		X	X	X	X	X	X	X	X	X	X	X	X	1	
ME-SCR	2/17/11 0950	X			X	X	X	X	X	X	X	X	X	1	
ME-VR2	2/17/11 1216			X	X	X	X	X	X	X	X	X	X	1	
~~MO-CSM~~					X	X	X	X	X	X	X	X	X	1	
MO-OJA	2/17/11 1123			X	X	X	X	X	X	X	X	X	X	1	
MO-MEI	2/17/11 1148			X	X	X	X	X	X	X	X	X	X	1	
MO-VEN	2/17/11 1045				X	X	X	X	X	X	X	X	X	1	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished
Printed Name: KELLY HAHS
Signature: [signature]
Affiliation: VCWPD Date/Time: 2/17/11 / 14:50

Received
Printed Name: [illegible]
Signature: [signature]
Affiliation: Date/Time: 2-17-11

Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.

[illegible] 2/17/11 16:20 1.7°C

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Composites - Weck Laboratories (SIDE 2 of 2)

1B17089

Sampling Date: 2/17/11
Project Number: 2010/11-4 (Wet) Composites
Sampling Team: K. HAHS, T. LIDDELL

SAMPLE ID	DATE/TIME COLLECTED				Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
~~MO-SPR~~					X	X	X	X	X	X	X	X	X	1	
~~MO-PEL~~					X	X	X	X	X	X	X	X	X	1	
~~MO-SIM~~					X	X	X	X	X	X	X	X	X	1	
~~MO-MPK~~					X	X	X	X	X	X	X	X	X	1	
~~MO-HUE~~					X	X	X	X	X	X	X	X	X	1	
MO-OXN	2/17/11 1027				X	X	X	X	X	X	X	X	X	1	
MO-HUE	2/17/11 1332				X	X	X	X	X	X	X	X	X	1	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished
Printed Name: KELLY HAHS
Signature:
Affiliation: VCWPD
Date/Time: 2/17/11 / 14:50

Received
Printed Name: JAIME GOMEZ
Signature: Jaime Gomez
Affiliation: Weck Labs
Date/Time: 2/17/11 18:15
1.7°C

Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.

COURIER PICK UP

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Bacteriological - VCHCA Lab (SIDE 1 of ~~2~~) (

Sampling Date: 4/19/11 Project Number: 2010/11-5 (Dry)

Sampling Team: K. HAHS, WB CAREY

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
~~	~~ME-CC~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~1~~	
~~	~~ME-SCR~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~1~~	
	ME-VR2	4/19/11 / 12:35	X	X	X	X	X			1	
~~	~~MO-CAM~~		~~X~~	~~X~~		~~X~~	~~X~~			~~1~~	
	MO-OJA	4/19/11 / 11:00	X	X		X	X			1	
	MO-MEI	4/19/11 / 11:55	X	X		X	X			1	
	MO-VEN	4/19/11 / 14:05	X	X		X	X			1	
	MO-HUE	4/19/11 / 13:25	X	X		X	X			1	

Relinquished Printed Name KELLY HAHS

Signature

Affiliation VCWPD Date/Time 4/19/11 / ~~14:37~~ 14:37

Received Printed Name Susan Bernardo

Signature

Affiliation PTHLab Date/Time 4/19/11 1437

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Grabs - Weck Laboratories (SIDE 1 of 2)

Sampling Date: 4/19/11 Project Number: 2010/11-5 (Dry) Grabs

Sampling Team: K. HAHS, WB CAREY

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits	Mercury (EPA 245.1)							Number of Bottles	NOTES
~~ME-CC~~		~~3~~	~~1~~	~~3~~	~~1~~								~~8~~	
~~ME-SCR~~		~~3~~	~~1~~	~~3~~	~~1~~								~~8~~	
ME-VR2	4/19/11 / 1235	3	1	3	1								8	
~~MO-CAM~~		~~3~~	~~1~~	~~3~~	~~1~~								~~8~~	
MO-OJA	4/19/11 / 11:00	2	1	3	1	1							8	Hg bottle needs preservative
MO-MEI	4/19/11 / 11:55	2	1	3	1	1							8	
MO-VEN	4/19/11 / 14:05	2	1	3	1								7	
MO-HUE	4/19/11 / 13:25	2	1	3	1								7	

Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished
Printed Name: KELLY HAHS
Signature: [signature]
Affiliation: VCWPD Date/Time: 4/19/11 / 15:15

Received
Printed Name: ALLAN GOLDBERG
Signature: [signature]
Affiliation: WECK LABS Date/Time: 4/19/11 1515

Other Notes: Please run 524.2 on travel blanks only if constituents detected in orginal analysis

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Composites - Weck Laboratories (SIDE 1 of 2)

Sampling Date: 4/19/11 Project Number: 2010/11-5 (Dry) Composites

Sampling Team: K. HAHS, WB CAREY

SAMPLE ID	DATE/TIME COLLECTED	Barium, total	Chlorine Residual	NO3-N	Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
~~ME-GC~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~ME-SCR~~		~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
ME-VR2	4/19/11 / 12:30			X	X	X	X	X	X	X	X	X	X	1	
~~MO-CAM~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
MO-OJA	4/19/11 / 10:55			X	X	X	X	X	X	X	X	X	X	1	
MO-MEI	4/19/11 / 11:40			X	X	X	X	X	X	X	X	X	X	1	
MO-VEN	4/19/11 / 14:00				X	X	X	X	X	X	X	X	X	1	
MO-HUE	4/19/11 / 13:20				X	X	X	X	X	X	X	X	X	1	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished
Printed Name: KELLY HAHS
Signature: Kelly Hahs
Affiliation: VCWPD Date/Time: 4/19/11 / 15:15

Received
Printed Name: ALLAN GOLDBERG
Signature:
Affiliation: WECK LABS Date/Time: 4/19/11 15:15

Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Equipment - Weck Laboratories

Sampling Date: 4/19/11 Project Number: 2010/11-5 (Dry) (Part 1 of 2)

Sampling Team: K. HAHS, WB CAREY

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES
18.5 L carboy and lid	3	2			Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Blue cube cooler			5		
Black bags			5		

Relinquished Printed Name KELLY HAHS

Signature Kelly Hahs

Affiliation VCWPD Date/Time 4/19/11 / 15:15

Received Printed Name ALLAN GOLDBERG

Signature

Affiliation WECK LABS Date/Time 4/19/11 1515

Other Notes: * Please clean with detergent, nitric, and methanol and **do not** rinse after methanol step (allow to air dry after methanol cleaning to avoid organics contamination). Record which bottles were cleaned with methanol.

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Bacteriological - VCHCA Lab (~~SBBG Lab~~)

Sampling Date: 4/28/11 Project Number: 2010/11-5 (Dry)

Sampling Team: WB CAREY, K. HAHS, T. LIDDELL

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	*E. coli* (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	MO-SPA	4/28/11 0740	X	X		X	X			1	
	MO-FIL	4/28/11 0845	X	X		X	X			1	
	MO-SIM	4/28/11 0850	X	X		X	X			1	
	MO-MPK	4/28/11 0810	X	X		X	X			1	
	MO-THO	4/28/11 0945	X	X		X	X			1	
	MO-OXN	4/28/11 11:15	X	X		X	X			1	
	MO-~~HUE~~ CAM	4/28/11 1025	X	X		X	X			1	
	ME-CC	4/28/11 1050	X	X	X	X	X				
	ME-SCR	4/28/11 0940	X	X	X	X	X				

Relinquished — Printed Name: Kelly Hahs

Signature: Kelly Hahs

Affiliation: VCWPD Date/Time: 4/28/11 / 12:00 pm

Received — Printed Name: MARIA BELCHER

Signature: Maria Belcher

Affiliation: Public Health Lab Date/Time: 4/28/11 12:00 pm.

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time

All times PDT

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Grabs - Weck Laboratories (~~[illegible]~~)

Sampling Date: 4/28/11 Project Number: 2010/11-5 (Dry) Grabs

Sampling Team: WB CAREY, K. HAHS, T. LIDDELL

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits								Number of Bottles	NOTES
MO-SPA	4/28/11 0740	2	1	3	1								7	
MO-FIL	4/28/11 0845	2	1	3	1								7	
MO-SIM	4/28/11 0850	2	1	3	1								7	
MO-MPK	4/28/11 0810	2	1	3	1								7	
MO-THO	4/28/11 0945	2	1	3	1								7	
MO-OXN	4/28/11 11:15	2	1	3	1								7	
MO-~~[illegible]~~ CAM	4/28/11 1025	2	1	3	1								7	
ME-CC	4/28/11 1050	2	1	3	1								7	
ME-SCR	4/28/11 0940	2	1	3	1								7	

Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished
Printed Name: KELLY HAHS
Signature:
Affiliation: VCWPD Date/Time: 4/28/11 / 14:40

Received
Printed Name: OSVALDO DELMURO
Signature:
Affiliation: Reliable Labs Date/Time: 4/28/2011 3:05

Other Notes: Please run 524.2 on travel blanks only if constituents detected in orginal analysis

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Composites - Weck Laboratories (SIDE 1 of 2)

Sampling Date: 4/28/11 Project Number: 2010/11-5 (Dry) Composites

Sampling Team: K. HAHS, W.R. CAREY, T. LIDDELL

SAMPLE ID	DATE/TIME COLLECTED	Barium, total	Chlorine Residual	NO3-N	Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-CC	4/28/11 / 1050	X	X	X	X	X	X	X	X	X	X	X	X	1	
ME-SCR	4/28/11 / 0940	X			X	X	X	X	X	X	X	X	X	1	
ME-VR2				X	X	X	X	X	X	X	X	X	X	1	
MO-CAM	4/28/11 1025				X	X	X	X	X	X	X	X	X	1	
MO-OJA				X	X	X	X	X	X	X	X	X	X	1	
MO-MEI				X	X	X	X	X	X	X	X	X	X	1	
MO-VEN					X	X	X	X	X	X	X	X	X	1	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished Printed Name _____

Signature _____

Affiliation _____ Date/Time _____

Received Printed Name _____

Signature _____

Affiliation _____ Date/Time _____

SEE PAGE 2

Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season Composites - Weck Laboratories (SIDE 2 of 2)

Sampling Date: 4/28/11 Project Number: 2010/11-5 (Dry) Composites

Sampling Team: WB CAREY, K. HAHS, T. LIDDELL

SAMPLE ID	DATE/TIME COLLECTED				Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
MO-SPA	4/28/11	0740			X	X	X	X	X	X	X	X	X	1	
MO-FIL	4/28/11	0845			X	X	X	X	X	X	X	X	X	1	
MO-SIM	4/28/11	0850			X	X	X	X	X	X	X	X	X	1	
MO-MPK	~~4/28/11~~	~~0855~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
MO-THO	4/28/11	0940			X	X	X	X	X	X	X	X	X	1	
MO-OXN	4/28/11	11:15			X	X	X	X	X	X	X	X	X	1	
MO-HUE	~~4/28/11~~	~~1130~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished
Printed Name: KELLY HAHS
Signature:
Affiliation: VCWPD Date/Time: 4/28/11 / 14:40

Received
Printed Name: OSVALDO DELMURO
Signature:
Affiliation: Reliable ms Date/Time: 4/28/2011 3:05

Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Composites - Weck Laboratories ~~(SFDL-2 of 2)~~

Sampling Date: 4/29/11 Project Number: 2010/11-5 (Dry ~~Wet~~) Composites

Sampling Team: K. HAHS, T. LIDDELL

SAMPLE ID	DATE/TIME COLLECTED				Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
~~MO-SPA~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-FIL~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-SIM~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
MO-MPK	4/29/11 / 0840				X	X	X	X	X	X	X	X	X	1	
~~MO-THO~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-OXN~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	
~~MO-HUE~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1~~	

Metals by200.8, Total & Dissolved:
Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

Metals by 200.7, Total (only):
Ca, Mg (for Hardness calc.)

608 include alpha- & gamma-chlordane

* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS

Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished
Printed Name: KELLY HAHS
Signature: [signature]
Affiliation: VCWPD Date/Time: 4/29/11 1205

Received
Printed Name: AJLAN GOLDBERG
Signature: [signature]
Affiliation: WECK LABS Date/Time: 4/29/11 1205

Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Equipment - Weck Laboratories

Sampling Date: 4/28/11 Project Number: 2010/11-5 (Dry)

Sampling Team: K. HAHS WB CAREY, T. LIDDELL

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES
18.5 L carboy and lid	9				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Blue cube cooler			9		
Black bags			9		

Relinquished Printed Name KELLY HAHS

Signature [signature]

Affiliation VCWPD Date/Time 4/28/11 / 14:40

Received Printed Name Osvaldo Delmud

Signature [signature]

Affiliation Reliable MS Date/Time 4/28/2011 3:05

Other Notes: * Please clean with detergent, nitric, and methanol and **do not** rinse after methanol step (allow to air dry after methanol cleaning to avoid organics contamination). Record which bottles were cleaned with methanol.

Appendix F. Laboratory QA/QC Analysis Results

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike	10/11/2010	Anion	Chloride	n/a	=	608	mg/L	EPA 300.0	5	25			D
2010/11-1	000NONPJ	matrix spike dup	10/11/2010	Anion	Chloride	n/a	=	603	mg/L	EPA 300.0	5	25			D
2010/11-1	000NONPJ	matrix spike dup, rec	10/11/2010	Anion	Chloride	n/a	=	88	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	000NONPJ	matrix spike, rec	10/11/2010	Anion	Chloride	n/a	=	91	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	000NONPJ	matrix spike, RPD	10/11/2010	Anion	Chloride	n/a	=	0.8	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	000NONPJ	matrix spike	10/12/2010	Anion	Chloride	n/a	=	491	mg/L	EPA 300.0	5	25			D
2010/11-1	000NONPJ	matrix spike	10/12/2010	Anion	Chloride	n/a	=	492	mg/L	EPA 300.0	5	25			D
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Anion	Chloride	n/a	=	485	mg/L	EPA 300.0	5	25			D
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Anion	Chloride	n/a	=	487	mg/L	EPA 300.0	5	25			D
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Anion	Chloride	n/a	=	92	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Anion	Chloride	n/a	=	92	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Anion	Chloride	n/a	=	94	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Anion	Chloride	n/a	=	94	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Anion	Chloride	n/a	=	1	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Anion	Chloride	n/a	=	1	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	000NONPJ	matrix spike	10/15/2010	Anion	Chloride	n/a	=	423	mg/L	EPA 300.0	5	25			D
2010/11-1	000NONPJ	matrix spike	10/15/2010	Anion	Chloride	n/a	=	410	mg/L	EPA 300.0	5	25			D
2010/11-1	000NONPJ	matrix spike dup	10/15/2010	Anion	Chloride	n/a	=	421	mg/L	EPA 300.0	5	25			D
2010/11-1	000NONPJ	matrix spike dup	10/15/2010	Anion	Chloride	n/a	=	414	mg/L	EPA 300.0	5	25			D
2010/11-1	000NONPJ	matrix spike dup, rec	10/15/2010	Anion	Chloride	n/a	=	95	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	000NONPJ	matrix spike dup, rec	10/15/2010	Anion	Chloride	n/a	=	94	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	000NONPJ	matrix spike, rec	10/15/2010	Anion	Chloride	n/a	=	93	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	000NONPJ	matrix spike, rec	10/15/2010	Anion	Chloride	n/a	=	95	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	000NONPJ	matrix spike, RPD	10/15/2010	Anion	Chloride	n/a	=	1	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	000NONPJ	matrix spike, RPD	10/15/2010	Anion	Chloride	n/a	=	0.6	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	Lab	LCS	10/11/2010	Anion	Chloride	n/a	=	3.83	mg/L	EPA 300.0	0.1	0.5			
2010/11-1	Lab	LCS, rec	10/11/2010	Anion	Chloride	n/a	=	96	%	EPA 300.0	-88	-88	90	110	
2010/11-1	Lab	method blank	10/11/2010	Anion	Chloride	n/a	DNQ	0.116	mg/L	EPA 300.0	0.1	0.5			IP
2010/11-1	Lab	LCS	10/12/2010	Anion	Chloride	n/a	=	3.88	mg/L	EPA 300.0	0.1	0.5			
2010/11-1	Lab	LCS, rec	10/12/2010	Anion	Chloride	n/a	=	97	%	EPA 300.0	-88	-88	90	110	
2010/11-1	Lab	method blank	10/12/2010	Anion	Chloride	n/a	DNQ	0.123	mg/L	EPA 300.0	0.1	0.5			IP
2010/11-1	Lab	LCS	10/15/2010	Anion	Chloride	n/a	=	3.86	mg/L	EPA 300.0	0.1	0.5			
2010/11-1	Lab	LCS, rec	10/15/2010	Anion	Chloride	n/a	=	97	%	EPA 300.0	-88	-88	90	110	
2010/11-1	Lab	method blank	10/15/2010	Anion	Chloride	n/a	<	0.1	mg/L	EPA 300.0	0.1	0.5			
2010/11-1	MO-CAM	matrix spike	10/11/2010	Anion	Chloride	n/a	=	51.5	mg/L	EPA 300.0	1	5			D
2010/11-1	MO-CAM	matrix spike dup	10/11/2010	Anion	Chloride	n/a	=	50.8	mg/L	EPA 300.0	1	5			D
2010/11-1	MO-CAM	matrix spike dup, rec	10/11/2010	Anion	Chloride	n/a	=	98	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	MO-CAM	matrix spike, rec	10/11/2010	Anion	Chloride	n/a	=	99	%	EPA 300.0	-88	-88	72	118	D
2010/11-1	MO-CAM	matrix spike, RPD	10/11/2010	Anion	Chloride	n/a	=	1	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	000NONPJ	matrix spike	10/11/2010	Anion	Fluoride	n/a	=	90.8	mg/L	EPA 300.0	1	5			D
2010/11-1	000NONPJ	matrix spike dup	10/11/2010	Anion	Fluoride	n/a	=	90.8	mg/L	EPA 300.0	1	5			D
2010/11-1	000NONPJ	matrix spike dup, rec	10/11/2010	Anion	Fluoride	n/a	=	90	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	000NONPJ	matrix spike, rec	10/11/2010	Anion	Fluoride	n/a	=	90	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	000NONPJ	matrix spike, RPD	10/11/2010	Anion	Fluoride	n/a	=	0.06	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	000NONPJ	matrix spike	10/12/2010	Anion	Fluoride	n/a	=	91.8	mg/L	EPA 300.0	1	5			D
2010/11-1	000NONPJ	matrix spike	10/12/2010	Anion	Fluoride	n/a	=	93.5	mg/L	EPA 300.0	1	5			D
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Anion	Fluoride	n/a	=	91.2	mg/L	EPA 300.0	1	5			D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Anion	Fluoride	n/a	=	93	mg/L	EPA 300.0	1	5			D
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Anion	Fluoride	n/a	=	92	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Anion	Fluoride	n/a	=	91	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Anion	Fluoride	n/a	=	91	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Anion	Fluoride	n/a	=	93	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Anion	Fluoride	n/a	=	0.6	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Anion	Fluoride	n/a	=	0.7	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	000NONPJ	matrix spike	10/15/2010	Anion	Fluoride	n/a	=	90.9	mg/L	EPA 300.0	1	5			D
2010/11-1	000NONPJ	matrix spike	10/15/2010	Anion	Fluoride	n/a	=	90	mg/L	EPA 300.0	1	5			D
2010/11-1	000NONPJ	matrix spike dup	10/15/2010	Anion	Fluoride	n/a	=	91.4	mg/L	EPA 300.0	1	5			D
2010/11-1	000NONPJ	matrix spike dup	10/15/2010	Anion	Fluoride	n/a	=	91.7	mg/L	EPA 300.0	1	5			D
2010/11-1	000NONPJ	matrix spike dup, rec	10/15/2010	Anion	Fluoride	n/a	=	92	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	000NONPJ	matrix spike dup, rec	10/15/2010	Anion	Fluoride	n/a	=	91	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	000NONPJ	matrix spike, rec	10/15/2010	Anion	Fluoride	n/a	=	91	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	000NONPJ	matrix spike, rec	10/15/2010	Anion	Fluoride	n/a	=	90	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	000NONPJ	matrix spike, RPD	10/15/2010	Anion	Fluoride	n/a	=	0.5	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	000NONPJ	matrix spike, RPD	10/15/2010	Anion	Fluoride	n/a	=	2	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	Lab	LCS	10/11/2010	Anion	Fluoride	n/a	=	1.84	mg/L	EPA 300.0	0.02	0.1			
2010/11-1	Lab	LCS, rec	10/11/2010	Anion	Fluoride	n/a	=	92	%	EPA 300.0	-88	-88	90	110	
2010/11-1	Lab	method blank	10/11/2010	Anion	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1			
2010/11-1	Lab	LCS	10/12/2010	Anion	Fluoride	n/a	=	1.91	mg/L	EPA 300.0	0.02	0.1			
2010/11-1	Lab	LCS, rec	10/12/2010	Anion	Fluoride	n/a	=	95	%	EPA 300.0	-88	-88	90	110	
2010/11-1	Lab	method blank	10/12/2010	Anion	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1			
2010/11-1	Lab	LCS	10/15/2010	Anion	Fluoride	n/a	=	1.84	mg/L	EPA 300.0	0.02	0.1			
2010/11-1	Lab	LCS, rec	10/15/2010	Anion	Fluoride	n/a	=	92	%	EPA 300.0	-88	-88	90	110	
2010/11-1	Lab	method blank	10/15/2010	Anion	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1			
2010/11-1	MO-CAM	matrix spike	10/11/2010	Anion	Fluoride	n/a	=	19	mg/L	EPA 300.0	0.2	1			D
2010/11-1	MO-CAM	matrix spike dup	10/11/2010	Anion	Fluoride	n/a	=	19.1	mg/L	EPA 300.0	0.2	1			D
2010/11-1	MO-CAM	matrix spike dup, rec	10/11/2010	Anion	Fluoride	n/a	=	95	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	MO-CAM	matrix spike, rec	10/11/2010	Anion	Fluoride	n/a	=	95	%	EPA 300.0	-88	-88	79	109	D
2010/11-1	MO-CAM	matrix spike, RPD	10/11/2010	Anion	Fluoride	n/a	=	0.3	%	EPA 300.0	-88	-88	0	20	D
2010/11-1	000NONPJ	matrix spike	10/14/2010	Anion	Perchlorate	n/a	=	10.9	µg/L	EPA 314.0	0.82	2			
2010/11-1	000NONPJ	matrix spike	10/14/2010	Anion	Perchlorate	n/a	=	14.5	µg/L	EPA 314.0	0.82	2			
2010/11-1	000NONPJ	matrix spike dup	10/14/2010	Anion	Perchlorate	n/a	=	11	µg/L	EPA 314.0	0.82	2			
2010/11-1	000NONPJ	matrix spike dup	10/14/2010	Anion	Perchlorate	n/a	=	15.1	µg/L	EPA 314.0	0.82	2			
2010/11-1	000NONPJ	matrix spike dup, rec	10/14/2010	Anion	Perchlorate	n/a	=	110	%	EPA 314.0	-88	-88	80	120	
2010/11-1	000NONPJ	matrix spike dup, rec	10/14/2010	Anion	Perchlorate	n/a	=	111	%	EPA 314.0	-88	-88	80	120	
2010/11-1	000NONPJ	matrix spike, rec	10/14/2010	Anion	Perchlorate	n/a	=	109	%	EPA 314.0	-88	-88	80	120	
2010/11-1	000NONPJ	matrix spike, rec	10/14/2010	Anion	Perchlorate	n/a	=	106	%	EPA 314.0	-88	-88	80	120	
2010/11-1	000NONPJ	matrix spike, RPD	10/14/2010	Anion	Perchlorate	n/a	=	4	%	EPA 314.0	-88	-88	0	15	
2010/11-1	000NONPJ	matrix spike, RPD	10/14/2010	Anion	Perchlorate	n/a	=	0.9	%	EPA 314.0	-88	-88	0	15	
2010/11-1	000NONPJ	matrix spike	10/16/2010	Anion	Perchlorate	n/a	=	19	µg/L	EPA 314.0	0.82	2			
2010/11-1	000NONPJ	matrix spike dup	10/16/2010	Anion	Perchlorate	n/a	=	18.6	µg/L	EPA 314.0	0.82	2			
2010/11-1	000NONPJ	matrix spike dup, rec	10/16/2010	Anion	Perchlorate	n/a	=	101	%	EPA 314.0	-88	-88	80	120	
2010/11-1	000NONPJ	matrix spike, rec	10/16/2010	Anion	Perchlorate	n/a	=	105	%	EPA 314.0	-88	-88	80	120	
2010/11-1	000NONPJ	matrix spike, RPD	10/16/2010	Anion	Perchlorate	n/a	=	2	%	EPA 314.0	-88	-88	0	15	
2010/11-1	Lab	LCS	10/14/2010	Anion	Perchlorate	n/a	=	9.86	µg/L	EPA 314.0	0.82	2			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS	10/14/2010	Anion	Perchlorate	n/a	=	10.3	µg/L	EPA 314.0	0.82	2			
2010/11-1	Lab	LCS, rec	10/14/2010	Anion	Perchlorate	n/a	=	103	%	EPA 314.0	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/14/2010	Anion	Perchlorate	n/a	=	99	%	EPA 314.0	-88	-88	85	115	
2010/11-1	Lab	method blank	10/14/2010	Anion	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2			
2010/11-1	Lab	method blank	10/14/2010	Anion	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2			
2010/11-1	Lab	LCS	10/16/2010	Anion	Perchlorate	n/a	=	11.2	µg/L	EPA 314.0	0.82	2			
2010/11-1	Lab	LCS, rec	10/16/2010	Anion	Perchlorate	n/a	=	112	%	EPA 314.0	-88	-88	85	115	
2010/11-1	Lab	method blank	10/16/2010	Anion	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2			
2010/11-1	MO-MEI	field duplicate	10/7/2010	Bacteriological	E. Coli	n/a	=	86640	MPN/100 mL	MMO-MUG	100	100	-88	-88	
2010/11-1	MO-MEI	field duplicate	10/8/2010	Bacteriological	Fecal Coliform	n/a	=	110000	MPN/100 mL	SM 9221 E	2	2	-88	-88	
2010/11-1	MO-MEI	field duplicate	10/7/2010	Bacteriological	Total Coliform	n/a	=	1413600	MPN/100 mL	MMO-MUG	1000	1000	-88	-88	
2010/11-1	Lab	LCS	10/13/2010	Cation	Calcium	Total	=	47.5	mg/L	EPA 200.7	0.016	0.1			
2010/11-1	Lab	LCS	10/13/2010	Cation	Calcium	Total	=	48.2	mg/L	EPA 200.7	0.016	0.1			
2010/11-1	Lab	LCS, rec	10/13/2010	Cation	Calcium	Total	=	95	%	EPA 200.7	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Cation	Calcium	Total	=	96	%	EPA 200.7	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Cation	Calcium	Total	<	0.016	mg/L	EPA 200.7	0.016	0.1			
2010/11-1	Lab	method blank	10/13/2010	Cation	Calcium	Total	<	0.016	mg/L	EPA 200.7	0.016	0.1			
2010/11-1	ME-CC	matrix spike	10/13/2010	Cation	Calcium	Total	=	95.3	mg/L	EPA 200.7	0.016	0.1			
2010/11-1	ME-CC	matrix spike dup	10/13/2010	Cation	Calcium	Total	=	95.2	mg/L	EPA 200.7	0.016	0.1			
2010/11-1	ME-CC	matrix spike dup, rec	10/13/2010	Cation	Calcium	Total	=	107	%	EPA 200.7	-88	-88	70	130	
2010/11-1	ME-CC	matrix spike, rec	10/13/2010	Cation	Calcium	Total	=	107	%	EPA 200.7	-88	-88	70	130	
2010/11-1	ME-CC	matrix spike, RPD	10/13/2010	Cation	Calcium	Total	=	0.06	%	EPA 200.7	-88	-88	0	30	
2010/11-1	MO-CAM	matrix spike	10/13/2010	Cation	Calcium	Total	=	64.6	mg/L	EPA 200.7	0.016	0.1			
2010/11-1	MO-CAM	matrix spike dup	10/13/2010	Cation	Calcium	Total	=	64	mg/L	EPA 200.7	0.016	0.1			
2010/11-1	MO-CAM	matrix spike dup, rec	10/13/2010	Cation	Calcium	Total	=	97	%	EPA 200.7	-88	-88	70	130	
2010/11-1	MO-CAM	matrix spike, rec	10/13/2010	Cation	Calcium	Total	=	98	%	EPA 200.7	-88	-88	70	130	
2010/11-1	MO-CAM	matrix spike, RPD	10/13/2010	Cation	Calcium	Total	=	1	%	EPA 200.7	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Cation	Magnesium	Total	=	49	mg/L	EPA 200.7	0.012	0.1			
2010/11-1	Lab	LCS	10/13/2010	Cation	Magnesium	Total	=	50.1	mg/L	EPA 200.7	0.012	0.1			
2010/11-1	Lab	LCS, rec	10/13/2010	Cation	Magnesium	Total	=	100	%	EPA 200.7	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Cation	Magnesium	Total	=	98	%	EPA 200.7	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Cation	Magnesium	Total	<	0.012	mg/L	EPA 200.7	0.012	0.1			
2010/11-1	Lab	method blank	10/13/2010	Cation	Magnesium	Total	<	0.012	mg/L	EPA 200.7	0.012	0.1			
2010/11-1	ME-CC	matrix spike	10/13/2010	Cation	Magnesium	Total	=	83.2	mg/L	EPA 200.7	0.012	0.1			
2010/11-1	ME-CC	matrix spike dup	10/13/2010	Cation	Magnesium	Total	=	83.4	mg/L	EPA 200.7	0.012	0.1			
2010/11-1	ME-CC	matrix spike dup, rec	10/13/2010	Cation	Magnesium	Total	=	117	%	EPA 200.7	-88	-88	70	130	
2010/11-1	ME-CC	matrix spike, rec	10/13/2010	Cation	Magnesium	Total	=	117	%	EPA 200.7	-88	-88	70	130	
2010/11-1	ME-CC	matrix spike, RPD	10/13/2010	Cation	Magnesium	Total	=	0.2	%	EPA 200.7	-88	-88	0	30	
2010/11-1	MO-CAM	matrix spike	10/13/2010	Cation	Magnesium	Total	=	55.3	mg/L	EPA 200.7	0.012	0.1			
2010/11-1	MO-CAM	matrix spike dup	10/13/2010	Cation	Magnesium	Total	=	54.5	mg/L	EPA 200.7	0.012	0.1			
2010/11-1	MO-CAM	matrix spike dup, rec	10/13/2010	Cation	Magnesium	Total	=	101	%	EPA 200.7	-88	-88	70	130	
2010/11-1	MO-CAM	matrix spike, rec	10/13/2010	Cation	Magnesium	Total	=	103	%	EPA 200.7	-88	-88	70	130	
2010/11-1	MO-CAM	matrix spike, RPD	10/13/2010	Cation	Magnesium	Total	=	2	%	EPA 200.7	-88	-88	0	30	
2010/11-1	000NONPJ	lab duplicate	10/19/2010	Conventional	Alkalinity as CaCO3	n/a	=	147	mg/L	SM 2320 B	1.2	10		15	
2010/11-1	Lab	LCS	10/19/2010	Conventional	Alkalinity as CaCO3	n/a	=	266	mg/L	SM 2320 B	1.2	10			
2010/11-1	Lab	LCS	10/19/2010	Conventional	Alkalinity as CaCO3	n/a	=	262	mg/L	SM 2320 B	1.2	2			
2010/11-1	Lab	LCS, rec	10/19/2010	Conventional	Alkalinity as CaCO3	n/a	=	106	%	SM 2320 B	-88	-88	94	108	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS, rec	10/19/2010	Conventional	Alkalinity as CaCO3	n/a	=	105	%	SM 2320 B	-88	-88	94	108	
2010/11-1	Lab	method blank	10/19/2010	Conventional	Alkalinity as CaCO3	n/a	DNQ	5.17	mg/L	SM 2320 B	1.2	10			IP
2010/11-1	Lab	method blank	10/19/2010	Conventional	Alkalinity as CaCO3	n/a	<	1.2	mg/L	SM 2320 B	1.2	2			
2010/11-1	MO-CAM	lab duplicate	10/19/2010	Conventional	Alkalinity as CaCO3	n/a	=	48.3	mg/L	SM 2320 B	1.2	2		15	
2010/11-1	Lab	LCS	10/12/2010	Conventional	BOD	n/a	=	187	mg/L	SM 5210 B	0.1	2			
2010/11-1	Lab	LCS, rec	10/12/2010	Conventional	BOD	n/a	=	94	%	SM 5210 B	-88	-88	85	115	
2010/11-1	Lab	LCS	10/13/2010	Conventional	BOD	n/a	=	197	mg/L	SM 5210 B	0.1	2			
2010/11-1	Lab	LCS, rec	10/13/2010	Conventional	BOD	n/a	=	99	%	SM 5210 B	-88	-88	85	115	
2010/11-1	000NONPJ	matrix spike	10/11/2010	Conventional	COD	n/a	=	320	mg/L	EPA 410.4	3.7	10			D
2010/11-1	000NONPJ	matrix spike	10/11/2010	Conventional	COD	n/a	=	280	mg/L	EPA 410.4	3.7	10			D
2010/11-1	000NONPJ	matrix spike dup	10/11/2010	Conventional	COD	n/a	=	320	mg/L	EPA 410.4	3.7	10			D
2010/11-1	000NONPJ	matrix spike dup	10/11/2010	Conventional	COD	n/a	=	280	mg/L	EPA 410.4	3.7	10			D
2010/11-1	000NONPJ	matrix spike dup, rec	10/11/2010	Conventional	COD	n/a	=	103	%	EPA 410.4	-88	-88	90	110	D
2010/11-1	000NONPJ	matrix spike dup, rec	10/11/2010	Conventional	COD	n/a	=	102	%	EPA 410.4	-88	-88	90	110	D
2010/11-1	000NONPJ	matrix spike, rec	10/11/2010	Conventional	COD	n/a	=	102	%	EPA 410.4	-88	-88	90	110	D
2010/11-1	000NONPJ	matrix spike, rec	10/11/2010	Conventional	COD	n/a	=	103	%	EPA 410.4	-88	-88	90	110	D
2010/11-1	000NONPJ	matrix spike, RPD	10/11/2010	Conventional	COD	n/a	=	0.05	%	EPA 410.4	-88	-88	0	15	D
2010/11-1	000NONPJ	matrix spike, RPD	10/11/2010	Conventional	COD	n/a	=	0.03	%	EPA 410.4	-88	-88	0	15	D
2010/11-1	Lab	LCS	10/8/2010	Conventional	COD	n/a	=	977	mg/L	EPA 410.4	1.8	5			
2010/11-1	Lab	LCS, rec	10/8/2010	Conventional	COD	n/a	=	98	%	EPA 410.4	-88	-88	90	110	
2010/11-1	Lab	method blank	10/8/2010	Conventional	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5			
2010/11-1	Lab	LCS	10/11/2010	Conventional	COD	n/a	=	994	mg/L	EPA 410.4	1.8	5			
2010/11-1	Lab	LCS, rec	10/11/2010	Conventional	COD	n/a	=	99	%	EPA 410.4	-88	-88	90	110	
2010/11-1	Lab	method blank	10/11/2010	Conventional	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5			
2010/11-1	MO-OXN	matrix spike	10/8/2010	Conventional	COD	n/a	=	293	mg/L	EPA 410.4	3.7	10			D
2010/11-1	MO-OXN	matrix spike dup	10/8/2010	Conventional	COD	n/a	=	293	mg/L	EPA 410.4	3.7	10			D
2010/11-1	MO-OXN	matrix spike dup, rec	10/8/2010	Conventional	COD	n/a	=	94	%	EPA 410.4	-88	-88	90	110	D
2010/11-1	MO-OXN	matrix spike, rec	10/8/2010	Conventional	COD	n/a	=	94	%	EPA 410.4	-88	-88	90	110	D
2010/11-1	MO-OXN	matrix spike, RPD	10/8/2010	Conventional	COD	n/a	=	0.01	%	EPA 410.4	-88	-88	0	15	D
2010/11-1	MO-VEN	matrix spike	10/8/2010	Conventional	COD	n/a	=	288	mg/L	EPA 410.4	3.7	10			D
2010/11-1	MO-VEN	matrix spike dup	10/8/2010	Conventional	COD	n/a	=	288	mg/L	EPA 410.4	3.7	10			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/8/2010	Conventional	COD	n/a	=	93	%	EPA 410.4	-88	-88	90	110	D
2010/11-1	MO-VEN	matrix spike, rec	10/8/2010	Conventional	COD	n/a	=	93	%	EPA 410.4	-88	-88	90	110	D
2010/11-1	MO-VEN	matrix spike, RPD	10/8/2010	Conventional	COD	n/a	=	0.05	%	EPA 410.4	-88	-88	0	15	D
2010/11-1	000NONPJ	matrix spike	10/13/2010	Conventional	Cyanide	Total	=	0.144	mg/L	EPA 335.4	0.0027	0.005			GB
2010/11-1	000NONPJ	matrix spike dup	10/13/2010	Conventional	Cyanide	Total	=	0.113	mg/L	EPA 335.4	0.0027	0.005			GB
2010/11-1	000NONPJ	matrix spike dup, rec	10/13/2010	Conventional	Cyanide	Total	=	56	%	EPA 335.4	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, rec	10/13/2010	Conventional	Cyanide	Total	=	72	%	EPA 335.4	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/13/2010	Conventional	Cyanide	Total	=	24	%	EPA 335.4	-88	-88	0	20	IL
2010/11-1	Lab	LCS	10/13/2010	Conventional	Cyanide	Total	=	0.05	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-1	Lab	LCS, rec	10/13/2010	Conventional	Cyanide	Total	=	100	%	EPA 335.4	-88	-88	90	110	X
2010/11-1	Lab	method blank	10/13/2010	Conventional	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-1	Lab	LCS	10/19/2010	Conventional	Cyanide	Total	=	0.0491	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-1	Lab	LCS, rec	10/19/2010	Conventional	Cyanide	Total	=	98	%	EPA 335.4	-88	-88	90	110	X
2010/11-1	Lab	method blank	10/19/2010	Conventional	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-1	ME-VR2	matrix spike	10/19/2010	Conventional	Cyanide	Total	=	0.179	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-1	ME-VR2	matrix spike dup	10/19/2010	Conventional	Cyanide	Total	=	0.173	mg/L	EPA 335.4	0.0027	0.005			GB

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-VR2	matrix spike dup, rec	10/19/2010	Conventional	Cyanide	Total	=	86	%	EPA 335.4	-88	-88	90	110	GB
2010/11-1	ME-VR2	matrix spike, rec	10/19/2010	Conventional	Cyanide	Total	=	90	%	EPA 335.4	-88	-88	90	110	X
2010/11-1	ME-VR2	matrix spike, RPD	10/19/2010	Conventional	Cyanide	Total	=	3	%	EPA 335.4	-88	-88	0	20	X
2010/11-1	MO-CAM	matrix spike	10/19/2010	Conventional	Cyanide	Total	=	0.191	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-1	MO-CAM	matrix spike dup	10/19/2010	Conventional	Cyanide	Total	=	0.177	mg/L	EPA 335.4	0.0027	0.005			GB
2010/11-1	MO-CAM	matrix spike dup, rec	10/19/2010	Conventional	Cyanide	Total	=	88	%	EPA 335.4	-88	-88	90	110	GB
2010/11-1	MO-CAM	matrix spike, rec	10/19/2010	Conventional	Cyanide	Total	=	96	%	EPA 335.4	-88	-88	90	110	X
2010/11-1	MO-CAM	matrix spike, RPD	10/19/2010	Conventional	Cyanide	Total	=	8	%	EPA 335.4	-88	-88	0	20	X
2010/11-1	MO-MEI	field duplicate	10/19/2010	Conventional	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005			GB
2010/11-1	000NONPJ	matrix spike	10/8/2010	Conventional	MBAS	n/a	=	0.186	mg/L	SM 5540 C	0.019	0.05			
2010/11-1	000NONPJ	matrix spike dup	10/8/2010	Conventional	MBAS	n/a	=	0.181	mg/L	SM 5540 C	0.019	0.05			
2010/11-1	000NONPJ	matrix spike dup, rec	10/8/2010	Conventional	MBAS	n/a	=	90	%	SM 5540 C	-88	-88	77	118	
2010/11-1	000NONPJ	matrix spike, rec	10/8/2010	Conventional	MBAS	n/a	=	93	%	SM 5540 C	-88	-88	77	118	
2010/11-1	000NONPJ	matrix spike, RPD	10/8/2010	Conventional	MBAS	n/a	=	3	%	SM 5540 C	-88	-88	0	20	
2010/11-1	Lab	LCS	10/8/2010	Conventional	MBAS	n/a	=	0.219	mg/L	SM 5540 C	0.019	0.05			
2010/11-1	Lab	LCS, rec	10/8/2010	Conventional	MBAS	n/a	=	110	%	SM 5540 C	-88	-88	79	113	
2010/11-1	Lab	method blank	10/8/2010	Conventional	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05			
2010/11-1	Lab	method blank	10/8/2010	Conventional	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05			
2010/11-1	Lab	LCS	10/9/2010	Conventional	MBAS	n/a	=	0.193	mg/L	SM 5540 C	0.019	0.05			
2010/11-1	Lab	LCS, rec	10/9/2010	Conventional	MBAS	n/a	=	97	%	SM 5540 C	-88	-88	79	113	
2010/11-1	Lab	method blank	10/9/2010	Conventional	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05			
2010/11-1	ME-VR2	matrix spike	10/9/2010	Conventional	MBAS	n/a	=	0.238	mg/L	SM 5540 C	0.019	0.05			
2010/11-1	ME-VR2	matrix spike dup	10/9/2010	Conventional	MBAS	n/a	=	0.223	mg/L	SM 5540 C	0.019	0.05			
2010/11-1	ME-VR2	matrix spike dup, rec	10/9/2010	Conventional	MBAS	n/a	=	99	%	SM 5540 C	-88	-88	77	118	
2010/11-1	ME-VR2	matrix spike, rec	10/9/2010	Conventional	MBAS	n/a	=	106	%	SM 5540 C	-88	-88	77	118	
2010/11-1	ME-VR2	matrix spike, RPD	10/9/2010	Conventional	MBAS	n/a	=	6	%	SM 5540 C	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike	10/15/2010	Conventional	Phenolics	n/a	=	0.259	mg/L	EPA 420.4	0.0016	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/15/2010	Conventional	Phenolics	n/a	=	0.264	mg/L	EPA 420.4	0.0016	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/15/2010	Conventional	Phenolics	n/a	=	102	%	EPA 420.4	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/15/2010	Conventional	Phenolics	n/a	=	100	%	EPA 420.4	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, RPD	10/15/2010	Conventional	Phenolics	n/a	=	2	%	EPA 420.4	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike	10/18/2010	Conventional	Phenolics	n/a	=	0.26	mg/L	EPA 420.4	0.0016	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/18/2010	Conventional	Phenolics	n/a	=	0.266	mg/L	EPA 420.4	0.0016	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/18/2010	Conventional	Phenolics	n/a	=	110	%	EPA 420.4	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/18/2010	Conventional	Phenolics	n/a	=	107	%	EPA 420.4	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, RPD	10/18/2010	Conventional	Phenolics	n/a	=	2	%	EPA 420.4	-88	-88	0	20	
2010/11-1	Lab	LCS	10/15/2010	Conventional	Phenolics	n/a	=	0.101	mg/L	EPA 420.4	0.0016	0.01			
2010/11-1	Lab	LCS, rec	10/15/2010	Conventional	Phenolics	n/a	=	101	%	EPA 420.4	-88	-88	90	110	
2010/11-1	Lab	method blank	10/15/2010	Conventional	Phenolics	n/a	<	0.0016	mg/L	EPA 420.4	0.0016	0.01			
2010/11-1	Lab	LCS	10/18/2010	Conventional	Phenolics	n/a	=	0.103	mg/L	EPA 420.4	0.0016	0.01			
2010/11-1	Lab	LCS, rec	10/18/2010	Conventional	Phenolics	n/a	=	103	%	EPA 420.4	-88	-88	90	110	
2010/11-1	Lab	method blank	10/18/2010	Conventional	Phenolics	n/a	<	0.0016	mg/L	EPA 420.4	0.0016	0.01			
2010/11-1	ME-VR2	matrix spike	10/18/2010	Conventional	Phenolics	n/a	=	0.283	mg/L	EPA 420.4	0.0016	0.01			GB
2010/11-1	ME-VR2	matrix spike dup	10/18/2010	Conventional	Phenolics	n/a	=	0.273	mg/L	EPA 420.4	0.0016	0.01			
2010/11-1	ME-VR2	matrix spike dup, rec	10/18/2010	Conventional	Phenolics	n/a	=	106	%	EPA 420.4	-88	-88	90	110	
2010/11-1	ME-VR2	matrix spike, rec	10/18/2010	Conventional	Phenolics	n/a	=	111	%	EPA 420.4	-88	-88	90	110	GB
2010/11-1	ME-VR2	matrix spike, RPD	10/18/2010	Conventional	Phenolics	n/a	=	3	%	EPA 420.4	-88	-88	0	20	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	lab duplicate	10/13/2010	Conventional	Specific Conductance	n/a	=	712	µmhos/cm	SM 2510 B	0.23	2		4.28	
2010/11-1	000NONPJ	lab duplicate	10/19/2010	Conventional	Specific Conductance	n/a	=	1000	µmhos/cm	SM 2510 B	0.23	2		4.28	
2010/11-1	Lab	LCS	10/13/2010	Conventional	Specific Conductance	n/a	=	205	µmhos/cm	SM 2510 B	0.23	2			
2010/11-1	Lab	LCS, rec	10/13/2010	Conventional	Specific Conductance	n/a	=	102	%	SM 2510 B	-88	-88	95	105	
2010/11-1	Lab	method blank	10/13/2010	Conventional	Specific Conductance	n/a	DNQ	0.44	µmhos/cm	SM 2510 B	0.23	2			IP
2010/11-1	Lab	LCS	10/19/2010	Conventional	Specific Conductance	n/a	=	201	µmhos/cm	SM 2510 B	0.23	2			
2010/11-1	Lab	LCS, rec	10/19/2010	Conventional	Specific Conductance	n/a	=	100	%	SM 2510 B	-88	-88	95	105	
2010/11-1	Lab	method blank	10/19/2010	Conventional	Specific Conductance	n/a	DNQ	0.41	µmhos/cm	SM 2510 B	0.23	2			IP
2010/11-1	000NONPJ	matrix spike	10/8/2010	Conventional	Total Chlorine Residual	n/a	=	0.19	mg/L	SM 4500-Cl G	0.0016	0.05			
2010/11-1	000NONPJ	matrix spike dup	10/8/2010	Conventional	Total Chlorine Residual	n/a	=	0.189	mg/L	SM 4500-Cl G	0.0016	0.05			
2010/11-1	000NONPJ	matrix spike dup, rec	10/8/2010	Conventional	Total Chlorine Residual	n/a	=	93	%	SM 4500-Cl G	-88	-88	65	128	
2010/11-1	000NONPJ	matrix spike, rec	10/8/2010	Conventional	Total Chlorine Residual	n/a	=	94	%	SM 4500-Cl G	-88	-88	65	128	
2010/11-1	000NONPJ	matrix spike, RPD	10/8/2010	Conventional	Total Chlorine Residual	n/a	=	0.5	%	SM 4500-Cl G	-88	-88	0	15	
2010/11-1	Lab	LCS	10/8/2010	Conventional	Total Chlorine Residual	n/a	=	0.186	mg/L	SM 4500-Cl G	0.0016	0.05			
2010/11-1	Lab	LCS, rec	10/8/2010	Conventional	Total Chlorine Residual	n/a	=	93	%	SM 4500-Cl G	-88	-88	82	112	
2010/11-1	Lab	method blank	10/8/2010	Conventional	Total Chlorine Residual	n/a	<	0.0016	mg/L	SM 4500-Cl G	0.0016	0.05			
2010/11-1	000NONPJ	lab duplicate	10/11/2010	Conventional	Total Dissolved Solids	n/a	=	438	mg/L	SM 2540 C	4	10		10	
2010/11-1	000NONPJ	lab duplicate	10/13/2010	Conventional	Total Dissolved Solids	n/a	=	1230	mg/L	SM 2540 C	4	10		10	
2010/11-1	000NONPJ	lab duplicate	10/13/2010	Conventional	Total Dissolved Solids	n/a	=	776	mg/L	SM 2540 C	4	10		10	
2010/11-1	Lab	LCS	10/11/2010	Conventional	Total Dissolved Solids	n/a	=	810	mg/L	SM 2540 C	4	10			
2010/11-1	Lab	LCS, rec	10/11/2010	Conventional	Total Dissolved Solids	n/a	=	98	%	SM 2540 C	-88	-88	91	104	
2010/11-1	Lab	method blank	10/11/2010	Conventional	Total Dissolved Solids	n/a	<	4	mg/L	SM 2540 C	4	10			
2010/11-1	Lab	LCS	10/13/2010	Conventional	Total Dissolved Solids	n/a	=	842	mg/L	SM 2540 C	4	10			
2010/11-1	Lab	LCS, rec	10/13/2010	Conventional	Total Dissolved Solids	n/a	=	102	%	SM 2540 C	-88	-88	91	104	
2010/11-1	Lab	method blank	10/13/2010	Conventional	Total Dissolved Solids	n/a	<	4	mg/L	SM 2540 C	4	10			
2010/11-1	MO-VEN	lab duplicate	10/11/2010	Conventional	Total Dissolved Solids	n/a	=	185	mg/L	SM 2540 C	4	10		10	
2010/11-1	000NONPJ	matrix spike	10/14/2010	Conventional	Total Organic Carbon	n/a	=	5.43	mg/L	SM 5310 C	0.032	0.3			
2010/11-1	000NONPJ	matrix spike dup	10/14/2010	Conventional	Total Organic Carbon	n/a	=	5.33	mg/L	SM 5310 C	0.032	0.3			
2010/11-1	000NONPJ	matrix spike dup, rec	10/14/2010	Conventional	Total Organic Carbon	n/a	=	97	%	SM 5310 C	-88	-88	84	107	
2010/11-1	000NONPJ	matrix spike, rec	10/14/2010	Conventional	Total Organic Carbon	n/a	=	99	%	SM 5310 C	-88	-88	84	107	
2010/11-1	000NONPJ	matrix spike, RPD	10/14/2010	Conventional	Total Organic Carbon	n/a	=	2	%	SM 5310 C	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike	10/21/2010	Conventional	Total Organic Carbon	n/a	=	5.17	mg/L	SM 5310 C	0.032	0.3			
2010/11-1	000NONPJ	matrix spike dup	10/21/2010	Conventional	Total Organic Carbon	n/a	=	5.04	mg/L	SM 5310 C	0.032	0.3			
2010/11-1	000NONPJ	matrix spike dup, rec	10/21/2010	Conventional	Total Organic Carbon	n/a	=	95	%	SM 5310 C	-88	-88	84	107	
2010/11-1	000NONPJ	matrix spike, rec	10/21/2010	Conventional	Total Organic Carbon	n/a	=	98	%	SM 5310 C	-88	-88	84	107	
2010/11-1	000NONPJ	matrix spike, RPD	10/21/2010	Conventional	Total Organic Carbon	n/a	=	3	%	SM 5310 C	-88	-88	0	20	
2010/11-1	Lab	LCS	10/14/2010	Conventional	Total Organic Carbon	n/a	=	4.82	mg/L	SM 5310 C	0.032	0.3			
2010/11-1	Lab	LCS dup	10/14/2010	Conventional	Total Organic Carbon	n/a	=	4.77	mg/L	SM 5310 C	0.032	0.3			
2010/11-1	Lab	LCS dup, rec	10/14/2010	Conventional	Total Organic Carbon	n/a	=	95	%	SM 5310 C	-88	-88			
2010/11-1	Lab	LCS, rec	10/14/2010	Conventional	Total Organic Carbon	n/a	=	96	%	SM 5310 C	-88	-88	90	110	
2010/11-1	Lab	LCS, RPD	10/14/2010	Conventional	Total Organic Carbon	n/a	=	1	%	SM 5310 C	-88	-88	0		
2010/11-1	Lab	method blank	10/14/2010	Conventional	Total Organic Carbon	n/a	<	0.032	mg/L	SM 5310 C	0.032	0.3			
2010/11-1	Lab	LCS	10/20/2010	Conventional	Total Organic Carbon	n/a	=	4.89	mg/L	SM 5310 C	0.032	0.3			
2010/11-1	Lab	LCS, rec	10/20/2010	Conventional	Total Organic Carbon	n/a	=	98	%	SM 5310 C	-88	-88	90	110	
2010/11-1	Lab	method blank	10/20/2010	Conventional	Total Organic Carbon	n/a	DNQ	0.0321	mg/L	SM 5310 C	0.032	0.3			IP
2010/11-1	Lab	LCS	10/21/2010	Conventional	Total Organic Carbon	n/a	=	4.87	mg/L	SM 5310 C	0.032	0.3			
2010/11-1	Lab	LCS, rec	10/21/2010	Conventional	Total Organic Carbon	n/a	=	97	%	SM 5310 C	-88	-88	90	110	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	method blank	10/21/2010	Conventional	Total Organic Carbon	n/a	<	0.032	mg/L	SM 5310 C	0.032	0.3			
2010/11-1	ME-CC	matrix spike	10/20/2010	Conventional	Total Organic Carbon	n/a	=	61.8	mg/L	SM 5310 C	0.32	3			D
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Conventional	Total Organic Carbon	n/a	=	62.3	mg/L	SM 5310 C	0.32	3			D
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Conventional	Total Organic Carbon	n/a	=	99	%	SM 5310 C	-88	-88	84	107	D
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Conventional	Total Organic Carbon	n/a	=	98	%	SM 5310 C	-88	-88	84	107	D
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Conventional	Total Organic Carbon	n/a	=	0.8	%	SM 5310 C	-88	-88	0	20	D
2010/11-1	000NONPJ	lab duplicate	10/12/2010	Conventional	Total Suspended Solids	n/a	=	760	mg/L	SM 2540 D	5	5		20	
2010/11-1	Lab	method blank	10/12/2010	Conventional	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5			
2010/11-1	MO-CAM	lab duplicate	10/12/2010	Conventional	Total Suspended Solids	n/a	=	109	mg/L	SM 2540 D	5	5		20	
2010/11-1	000NONPJ	lab duplicate	10/7/2010	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1		10	
2010/11-1	000NONPJ	lab duplicate	10/8/2010	Conventional	Turbidity	n/a	=	0.1	NTU	EPA 180.1	0.024	0.1		10	
2010/11-1	Lab	LCS	10/7/2010	Conventional	Turbidity	n/a	=	6.86	NTU	EPA 180.1	0.024	0.1			
2010/11-1	Lab	LCS, rec	10/7/2010	Conventional	Turbidity	n/a	=	100	%	EPA 180.1	-88	-88	90	110	
2010/11-1	Lab	method blank	10/7/2010	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1			
2010/11-1	Lab	LCS	10/8/2010	Conventional	Turbidity	n/a	=	6.97	NTU	EPA 180.1	0.024	0.1			
2010/11-1	Lab	LCS, rec	10/8/2010	Conventional	Turbidity	n/a	=	102	%	EPA 180.1	-88	-88	90	110	
2010/11-1	Lab	method blank	10/8/2010	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1			
2010/11-1	000NONPJ	lab duplicate	10/12/2010	Conventional	Volatile Suspended Solids	n/a	=	480	mg/L	EPA 160.4	3.1	5		15	
2010/11-1	Lab	method blank	10/12/2010	Conventional	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5			
2010/11-1	MO-CAM	lab duplicate	10/12/2010	Conventional	Volatile Suspended Solids	n/a	=	32	mg/L	EPA 160.4	3.1	5		15	
2010/11-1	Lab	LCS	10/12/2010	Hydrocarbon	Oil and Grease	n/a	DNQ	4.3	mg/L	EPA 1664A	2	5			J
2010/11-1	Lab	LCS	10/12/2010	Hydrocarbon	Oil and Grease	n/a	=	17.5	mg/L	EPA 1664A	2	5			X
2010/11-1	Lab	LCS, rec	10/12/2010	Hydrocarbon	Oil and Grease	n/a	=	88	%	EPA 1664A	-88	-88	78	114	X
2010/11-1	Lab	LCS, rec	10/12/2010	Hydrocarbon	Oil and Grease	n/a	=	86	%	EPA 1664A	-88	-88	78	114	J
2010/11-1	Lab	method blank	10/12/2010	Hydrocarbon	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5			X
2010/11-1	Lab	LCS	10/13/2010	Hydrocarbon	Oil and Grease	n/a	=	18.7	mg/L	EPA 1664A	2	5			X
2010/11-1	Lab	LCS	10/13/2010	Hydrocarbon	Oil and Grease	n/a	DNQ	4	mg/L	EPA 1664A	2	5			J
2010/11-1	Lab	LCS, rec	10/13/2010	Hydrocarbon	Oil and Grease	n/a	=	80	%	EPA 1664A	-88	-88	78	114	J
2010/11-1	Lab	LCS, rec	10/13/2010	Hydrocarbon	Oil and Grease	n/a	=	94	%	EPA 1664A	-88	-88	78	114	X
2010/11-1	Lab	method blank	10/13/2010	Hydrocarbon	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5			X
2010/11-1	ME-CC	matrix spike	10/13/2010	Hydrocarbon	Oil and Grease	n/a	=	15.9	mg/L	EPA 1664A	2	5			X
2010/11-1	ME-CC	matrix spike dup	10/13/2010	Hydrocarbon	Oil and Grease	n/a	=	19.1	mg/L	EPA 1664A	2	5			X
2010/11-1	ME-CC	matrix spike dup, rec	10/13/2010	Hydrocarbon	Oil and Grease	n/a	=	96	%	EPA 1664A	-88	-88	78	114	X
2010/11-1	ME-CC	matrix spike, rec	10/13/2010	Hydrocarbon	Oil and Grease	n/a	=	80	%	EPA 1664A	-88	-88	78	114	X
2010/11-1	ME-CC	matrix spike, RPD	10/13/2010	Hydrocarbon	Oil and Grease	n/a	=	18	%	EPA 1664A	-88	-88	0	18	X
2010/11-1	ME-SCR	matrix spike	10/12/2010	Hydrocarbon	Oil and Grease	n/a	=	20.7	mg/L	EPA 1664A	2	5			X
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Hydrocarbon	Oil and Grease	n/a	=	21.1	mg/L	EPA 1664A	2	5			X
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Hydrocarbon	Oil and Grease	n/a	=	80	%	EPA 1664A	-88	-88	78	114	X
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Hydrocarbon	Oil and Grease	n/a	=	79	%	EPA 1664A	-88	-88	78	114	X
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Hydrocarbon	Oil and Grease	n/a	=	2	%	EPA 1664A	-88	-88	0	18	X
2010/11-1	MO-MEI	field duplicate	10/12/2010	Hydrocarbon	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5			X
2010/11-1	Lab	method blank	10/12/2010	Hydrocarbon	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5			X
2010/11-1	Lab	method blank	10/13/2010	Hydrocarbon	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5			X
2010/11-1	MO-MEI	field duplicate	10/12/2010	Hydrocarbon	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5			X
2010/11-1	Lab	LCS	10/13/2010	Metal	Aluminum	Dissolved	=	51.8	µg/L	EPA 200.8	0.19	5			
2010/11-1	Lab	LCS	10/13/2010	Metal	Aluminum	Dissolved	=	50.3	µg/L	EPA 200.8	0.19	5			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Aluminum	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Aluminum	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Aluminum	Dissolved	DNQ	0.948	µg/L	EPA 200.8	0.19	5			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Aluminum	Dissolved	DNQ	1.28	µg/L	EPA 200.8	0.19	5			IP
2010/11-1	Lab	LCS	10/13/2010	Metal	Aluminum	Total	=	50.3	µg/L	EPA 200.8	0.19	5			
2010/11-1	Lab	LCS	10/13/2010	Metal	Aluminum	Total	=	51.8	µg/L	EPA 200.8	0.19	5			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Aluminum	Total	=	104	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Aluminum	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Aluminum	Total	DNQ	0.948	µg/L	EPA 200.8	0.19	5			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Aluminum	Total	DNQ	1.28	µg/L	EPA 200.8	0.19	5			IP
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Aluminum	Total	=	326	µg/L	EPA 200.8	0.19	5			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Aluminum	Total	=	328	µg/L	EPA 200.8	0.19	5			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Aluminum	Total	=	80	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Aluminum	Total	=	76	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Aluminum	Total	=	0.6	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Aluminum	Total	=	640	µg/L	EPA 200.8	0.19	5			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Aluminum	Total	=	626	µg/L	EPA 200.8	0.19	5			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Aluminum	Total	=	88	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Aluminum	Total	=	114	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Aluminum	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Aluminum	Total	=	2010	µg/L	EPA 200.8	0.19	5			R
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Aluminum	Total	=	2000	µg/L	EPA 200.8	0.19	5			R
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Aluminum	Total	=	-86	%	EPA 200.8	-88	-88	70	130	R
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Aluminum	Total	=	-69	%	EPA 200.8	-88	-88	70	130	R
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Aluminum	Total	=	0.4	%	EPA 200.8	-88	-88	0	30	R
2010/11-1	Lab	LCS	10/13/2010	Metal	Antimony	Dissolved	=	49.4	µg/L	EPA 200.8	0.008	0.5			
2010/11-1	Lab	LCS	10/13/2010	Metal	Antimony	Dissolved	=	50.4	µg/L	EPA 200.8	0.008	0.5			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Antimony	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Antimony	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Antimony	Dissolved	DNQ	0.0285	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Antimony	Dissolved	DNQ	0.0372	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-1	Lab	LCS	10/13/2010	Metal	Antimony	Total	=	49.4	µg/L	EPA 200.8	0.008	0.5			
2010/11-1	Lab	LCS	10/13/2010	Metal	Antimony	Total	=	50.4	µg/L	EPA 200.8	0.008	0.5			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Antimony	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Antimony	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Antimony	Total	DNQ	0.0372	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Antimony	Total	DNQ	0.0285	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Antimony	Total	=	50.1	µg/L	EPA 200.8	0.008	0.5			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Antimony	Total	=	50.3	µg/L	EPA 200.8	0.008	0.5			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Antimony	Total	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Antimony	Total	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Antimony	Total	=	0.5	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Antimony	Total	=	47.6	µg/L	EPA 200.8	0.008	0.5			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Antimony	Total	=	47.3	µg/L	EPA 200.8	0.008	0.5			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Antimony	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Antimony	Total	=	94	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Antimony	Total	=	0.7	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Antimony	Total	=	45.4	µg/L	EPA 200.8	0.008	0.5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Antimony	Total	=	45.8	µg/L	EPA 200.8	0.008	0.5			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Antimony	Total	=	89	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Antimony	Total	=	88	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Antimony	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Metal	Arsenic	Dissolved	=	49.7	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	Lab	LCS	10/13/2010	Metal	Arsenic	Dissolved	=	49	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Arsenic	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Arsenic	Dissolved	=	98	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Arsenic	Dissolved	<	0.014	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	Lab	method blank	10/13/2010	Metal	Arsenic	Dissolved	<	0.014	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	Lab	LCS	10/13/2010	Metal	Arsenic	Total	=	49.7	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	Lab	LCS	10/13/2010	Metal	Arsenic	Total	=	49	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Arsenic	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Arsenic	Total	=	98	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Arsenic	Total	<	0.014	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	Lab	method blank	10/13/2010	Metal	Arsenic	Total	<	0.014	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Arsenic	Total	=	53.7	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Arsenic	Total	=	52.7	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Arsenic	Total	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Arsenic	Total	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Arsenic	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Arsenic	Total	=	50.4	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Arsenic	Total	=	50.1	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Arsenic	Total	=	95	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Arsenic	Total	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Arsenic	Total	=	0.6	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Arsenic	Total	=	49.4	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Arsenic	Total	=	50.1	µg/L	EPA 200.8	0.014	0.4			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Arsenic	Total	=	94	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Arsenic	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Arsenic	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Metal	Barium	Total	=	50.6	µg/L	EPA 200.8	0.024	0.5			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Barium	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Barium	Total	<	0.024	µg/L	EPA 200.8	0.024	0.5			
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Barium	Total	=	129	µg/L	EPA 200.8	0.024	0.5			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Barium	Total	=	129	µg/L	EPA 200.8	0.024	0.5			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Barium	Total	=	107	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Barium	Total	=	106	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Barium	Total	=	0.4	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Barium	Total	=	95	µg/L	EPA 200.8	0.024	0.5			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Barium	Total	=	93.7	µg/L	EPA 200.8	0.024	0.5			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Barium	Total	=	102	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Barium	Total	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Barium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Metal	Beryllium	Dissolved	=	50.3	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	Lab	LCS	10/13/2010	Metal	Beryllium	Dissolved	=	50.2	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Beryllium	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Beryllium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	Lab	method blank	10/13/2010	Metal	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	Lab	LCS	10/13/2010	Metal	Beryllium	Total	=	50.3	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	Lab	LCS	10/13/2010	Metal	Beryllium	Total	=	50.2	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Beryllium	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Beryllium	Total	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	Lab	method blank	10/13/2010	Metal	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Beryllium	Total	=	42.5	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Beryllium	Total	=	43.1	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Beryllium	Total	=	86	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Beryllium	Total	=	85	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Beryllium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Beryllium	Total	=	42.8	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Beryllium	Total	=	41.4	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Beryllium	Total	=	83	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Beryllium	Total	=	85	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Beryllium	Total	=	3	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Beryllium	Total	=	49.4	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Beryllium	Total	=	50	µg/L	EPA 200.8	0.022	0.1			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Beryllium	Total	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Beryllium	Total	=	99	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Beryllium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Metal	Cadmium	Dissolved	=	50.8	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	Lab	LCS	10/13/2010	Metal	Cadmium	Dissolved	=	51.5	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Cadmium	Dissolved	=	103	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Cadmium	Dissolved	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Cadmium	Dissolved	<	0.013	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	Lab	method blank	10/13/2010	Metal	Cadmium	Dissolved	<	0.013	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	Lab	LCS	10/13/2010	Metal	Cadmium	Total	=	50.8	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	Lab	LCS	10/13/2010	Metal	Cadmium	Total	=	51.5	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Cadmium	Total	=	103	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Cadmium	Total	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Cadmium	Total	<	0.013	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	Lab	method blank	10/13/2010	Metal	Cadmium	Total	<	0.013	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Cadmium	Total	=	46.7	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Cadmium	Total	=	47.3	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Cadmium	Total	=	94	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Cadmium	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Cadmium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Cadmium	Total	=	40.6	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Cadmium	Total	=	40.5	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Cadmium	Total	=	81	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Cadmium	Total	=	81	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Cadmium	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Cadmium	Total	=	49.5	µg/L	EPA 200.8	0.013	0.1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Cadmium	Total	=	49.8	µg/L	EPA 200.8	0.013	0.1			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Cadmium	Total	=	99	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Cadmium	Total	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Cadmium	Total	=	0.5	%	EPA 200.8	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Metal	Chromium	Dissolved	=	49.1	µg/L	EPA 200.8	0.012	0.2			
2010/11-1	Lab	LCS	10/13/2010	Metal	Chromium	Dissolved	=	48.1	µg/L	EPA 200.8	0.012	0.2			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Chromium	Dissolved	=	98	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Chromium	Dissolved	=	96	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Chromium	Dissolved	DNQ	0.107	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Chromium	Dissolved	DNQ	0.012	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-1	Lab	LCS	10/13/2010	Metal	Chromium	Total	=	48.1	µg/L	EPA 200.8	0.012	0.2			
2010/11-1	Lab	LCS	10/13/2010	Metal	Chromium	Total	=	49.1	µg/L	EPA 200.8	0.012	0.2			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Chromium	Total	=	96	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Chromium	Total	=	98	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Chromium	Total	DNQ	0.107	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Chromium	Total	DNQ	0.012	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Chromium	Total	=	56.6	µg/L	EPA 200.8	0.012	0.2			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Chromium	Total	=	57.3	µg/L	EPA 200.8	0.012	0.2			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Chromium	Total	=	113	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Chromium	Total	=	112	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Chromium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Chromium	Total	=	60.7	µg/L	EPA 200.8	0.012	0.2			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Chromium	Total	=	60.9	µg/L	EPA 200.8	0.012	0.2			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Chromium	Total	=	117	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Chromium	Total	=	117	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Chromium	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Chromium	Total	=	53.5	µg/L	EPA 200.8	0.012	0.2			
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Chromium	Total	=	54.6	µg/L	EPA 200.8	0.012	0.2			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Chromium	Total	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Chromium	Total	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Chromium	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-1	000NONPJ	lab duplicate	10/7/2010	Metal	Chromium VI	n/a	DNQ	0.0995	µg/L	EPA 218.6	0.0059	0.3		10	
2010/11-1	000NONPJ	matrix spike	10/7/2010	Metal	Chromium VI	n/a	=	5.31	µg/L	EPA 218.6	0.0059	0.3			
2010/11-1	000NONPJ	matrix spike dup	10/7/2010	Metal	Chromium VI	n/a	=	5.41	µg/L	EPA 218.6	0.0059	0.3			
2010/11-1	000NONPJ	matrix spike dup, rec	10/7/2010	Metal	Chromium VI	n/a	=	106	%	EPA 218.6	-88	-88	88	112	
2010/11-1	000NONPJ	matrix spike, rec	10/7/2010	Metal	Chromium VI	n/a	=	104	%	EPA 218.6	-88	-88	88	112	
2010/11-1	000NONPJ	matrix spike, RPD	10/7/2010	Metal	Chromium VI	n/a	=	2	%	EPA 218.6	-88	-88	0	10	
2010/11-1	000NONPJ	matrix spike	10/9/2010	Metal	Chromium VI	n/a	=	5.43	µg/L	EPA 218.6	0.0059	0.3			
2010/11-1	000NONPJ	matrix spike, rec	10/9/2010	Metal	Chromium VI	n/a	=	107	%	EPA 218.6	-88	-88	88	112	
2010/11-1	000NONPJ	matrix spike dup	10/11/2010	Metal	Chromium VI	n/a	=	5.36	µg/L	EPA 218.6	0.0059	0.3			
2010/11-1	000NONPJ	matrix spike dup, rec	10/11/2010	Metal	Chromium VI	n/a	=	105	%	EPA 218.6	-88	-88	88	112	
2010/11-1	000NONPJ	matrix spike, RPD	10/11/2010	Metal	Chromium VI	n/a	=	1	%	EPA 218.6	-88	-88	0	10	
2010/11-1	Lab	LCS	10/7/2010	Metal	Chromium VI	n/a	=	5.34	µg/L	EPA 218.6	0.0059	0.3			
2010/11-1	Lab	LCS, rec	10/7/2010	Metal	Chromium VI	n/a	=	107	%	EPA 218.6	-88	-88	90	110	
2010/11-1	Lab	method blank	10/7/2010	Metal	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3			
2010/11-1	Lab	LCS	10/9/2010	Metal	Chromium VI	n/a	=	5.01	µg/L	EPA 218.6	0.0059	0.3			
2010/11-1	Lab	LCS, rec	10/9/2010	Metal	Chromium VI	n/a	=	100	%	EPA 218.6	-88	-88	90	110	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	method blank	10/9/2010	Metal	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3			
2010/11-1	ME-CC	matrix spike	10/9/2010	Metal	Chromium VI	n/a	=	5.2	µg/L	EPA 218.6	0.0059	0.3			
2010/11-1	ME-CC	matrix spike dup	10/9/2010	Metal	Chromium VI	n/a	=	5.17	µg/L	EPA 218.6	0.0059	0.3			
2010/11-1	ME-CC	matrix spike dup, rec	10/9/2010	Metal	Chromium VI	n/a	=	102	%	EPA 218.6	-88	-88	88	112	
2010/11-1	ME-CC	matrix spike, rec	10/9/2010	Metal	Chromium VI	n/a	=	103	%	EPA 218.6	-88	-88	88	112	
2010/11-1	ME-CC	matrix spike, RPD	10/9/2010	Metal	Chromium VI	n/a	=	0.7	%	EPA 218.6	-88	-88	0	10	
2010/11-1	Lab	LCS	10/13/2010	Metal	Copper	Dissolved	=	49.7	µg/L	EPA 200.8	0.022	0.5			
2010/11-1	Lab	LCS	10/13/2010	Metal	Copper	Dissolved	=	49.5	µg/L	EPA 200.8	0.022	0.5			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Copper	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Copper	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Copper	Dissolved	DNQ	0.0259	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Copper	Dissolved	DNQ	0.0464	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-1	Lab	LCS	10/13/2010	Metal	Copper	Total	=	49.7	µg/L	EPA 200.8	0.022	0.5			
2010/11-1	Lab	LCS	10/13/2010	Metal	Copper	Total	=	49.5	µg/L	EPA 200.8	0.022	0.5			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Copper	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Copper	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Copper	Total	DNQ	0.0259	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Copper	Total	DNQ	0.0464	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Copper	Total	=	58.1	µg/L	EPA 200.8	0.022	0.5			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Copper	Total	=	56.6	µg/L	EPA 200.8	0.022	0.5			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Copper	Total	=	106	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Copper	Total	=	109	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Copper	Total	=	3	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Copper	Total	=	63	µg/L	EPA 200.8	0.022	0.5			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Copper	Total	=	63.9	µg/L	EPA 200.8	0.022	0.5			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Copper	Total	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Copper	Total	=	102	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Copper	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Copper	Total	=	115	µg/L	EPA 200.8	0.022	0.5			
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Copper	Total	=	116	µg/L	EPA 200.8	0.022	0.5			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Copper	Total	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Copper	Total	=	91	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Copper	Total	=	0.6	%	EPA 200.8	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Metal	Iron	Dissolved	=	1060	µg/L	EPA 200.8	0.6	20			
2010/11-1	Lab	LCS	10/13/2010	Metal	Iron	Dissolved	=	56.2	µg/L	EPA 200.8	0.6	20			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Iron	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Iron	Dissolved	=	112	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Iron	Dissolved	DNQ	0.86	µg/L	EPA 200.8	0.6	20			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Iron	Dissolved	DNQ	1.53	µg/L	EPA 200.8	0.6	20			IP
2010/11-1	Lab	LCS	10/13/2010	Metal	Iron	Total	=	1060	µg/L	EPA 200.8	0.6	20			
2010/11-1	Lab	LCS	10/13/2010	Metal	Iron	Total	=	56.2	µg/L	EPA 200.8	0.6	20			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Iron	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Iron	Total	=	112	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Iron	Total	DNQ	0.86	µg/L	EPA 200.8	0.6	20			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Iron	Total	DNQ	1.53	µg/L	EPA 200.8	0.6	20			IP
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Iron	Total	=	2850	µg/L	EPA 200.8	0.6	20			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Iron	Total	=	2910	µg/L	EPA 200.8	0.6	20			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Iron	Total	=	127	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Iron	Total	=	120	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Iron	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Iron	Total	=	5340	µg/L	EPA 200.8	0.6	20			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Iron	Total	=	5240	µg/L	EPA 200.8	0.6	20			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Iron	Total	=	112	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Iron	Total	=	122	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Iron	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Iron	Total	=	3860	µg/L	EPA 200.8	0.6	20			R
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Iron	Total	=	3960	µg/L	EPA 200.8	0.6	20			R
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Iron	Total	=	-291	%	EPA 200.8	-88	-88	70	130	R
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Iron	Total	=	-486	%	EPA 200.8	-88	-88	70	130	R
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Iron	Total	=	3	%	EPA 200.8	-88	-88	0	30	R
2010/11-1	Lab	LCS	10/13/2010	Metal	Lead	Dissolved	=	49.3	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	Lab	LCS	10/13/2010	Metal	Lead	Dissolved	=	49	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Lead	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Lead	Dissolved	=	98	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	Lab	method blank	10/13/2010	Metal	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	Lab	LCS	10/13/2010	Metal	Lead	Total	=	49.3	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	Lab	LCS	10/13/2010	Metal	Lead	Total	=	49	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Lead	Total	=	98	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Lead	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Lead	Total	<	0.017	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	Lab	method blank	10/13/2010	Metal	Lead	Total	<	0.017	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Lead	Total	=	51.5	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Lead	Total	=	52.4	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Lead	Total	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Lead	Total	=	102	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Lead	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Lead	Total	=	60.3	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Lead	Total	=	59.8	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Lead	Total	=	107	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Lead	Total	=	108	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Lead	Total	=	0.9	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Lead	Total	=	64.1	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Lead	Total	=	64.8	µg/L	EPA 200.8	0.017	0.2			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Lead	Total	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Lead	Total	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Lead	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/12/2010	Metal	Mercury	Dissolved	=	969	ng/L	EPA 245.1	3.9	50			
2010/11-1	000NONPJ	matrix spike	10/12/2010	Metal	Mercury	Dissolved	=	981	ng/L	EPA 245.1	3.9	50			
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Metal	Mercury	Dissolved	=	1080	ng/L	EPA 245.1	3.9	50			
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Metal	Mercury	Dissolved	=	928	ng/L	EPA 245.1	3.9	50			
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Metal	Mercury	Dissolved	=	108	%	EPA 245.1	-88	-88	70	130	
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Metal	Mercury	Dissolved	=	93	%	EPA 245.1	-88	-88	70	130	
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Metal	Mercury	Dissolved	=	98	%	EPA 245.1	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Metal	Mercury	Dissolved	=	97	%	EPA 245.1	-88	-88	70	130	
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Metal	Mercury	Dissolved	=	10	%	EPA 245.1	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Metal	Mercury	Dissolved	=	4	%	EPA 245.1	-88	-88	0	20	
2010/11-1	Lab	LCS	10/12/2010	Metal	Mercury	Dissolved	=	990	ng/L	EPA 245.1	3.9	50			
2010/11-1	Lab	LCS, rec	10/12/2010	Metal	Mercury	Dissolved	=	99	%	EPA 245.1	-88	-88	85	115	
2010/11-1	Lab	method blank	10/12/2010	Metal	Mercury	Dissolved	DNQ	32	ng/L	EPA 245.1	3.9	50			IP
2010/11-1	Lab	LCS	10/18/2010	Metal	Mercury	Dissolved	=	1040	ng/L	EPA 245.1	3.9	50			
2010/11-1	Lab	LCS, rec	10/18/2010	Metal	Mercury	Dissolved	=	104	%	EPA 245.1	-88	-88	85	115	
2010/11-1	Lab	method blank	10/18/2010	Metal	Mercury	Dissolved	DNQ	33	ng/L	EPA 245.1	3.9	50			IP
2010/11-1	MO-MPK	matrix spike	10/18/2010	Metal	Mercury	Dissolved	=	1020	ng/L	EPA 245.1	3.9	50			
2010/11-1	MO-MPK	matrix spike dup	10/18/2010	Metal	Mercury	Dissolved	=	1040	ng/L	EPA 245.1	3.9	50			
2010/11-1	MO-MPK	matrix spike dup, rec	10/18/2010	Metal	Mercury	Dissolved	=	100	%	EPA 245.1	-88	-88	70	130	
2010/11-1	MO-MPK	matrix spike, rec	10/18/2010	Metal	Mercury	Dissolved	=	98	%	EPA 245.1	-88	-88	70	130	
2010/11-1	MO-MPK	matrix spike, RPD	10/18/2010	Metal	Mercury	Dissolved	=	2	%	EPA 245.1	-88	-88	0	20	
2010/11-1	MO-THO	matrix spike	10/18/2010	Metal	Mercury	Dissolved	=	1020	ng/L	EPA 245.1	3.9	50			
2010/11-1	MO-THO	matrix spike dup	10/18/2010	Metal	Mercury	Dissolved	=	1040	ng/L	EPA 245.1	3.9	50			
2010/11-1	MO-THO	matrix spike dup, rec	10/18/2010	Metal	Mercury	Dissolved	=	101	%	EPA 245.1	-88	-88	70	130	
2010/11-1	MO-THO	matrix spike, rec	10/18/2010	Metal	Mercury	Dissolved	=	99	%	EPA 245.1	-88	-88	70	130	
2010/11-1	MO-THO	matrix spike, RPD	10/18/2010	Metal	Mercury	Dissolved	=	2	%	EPA 245.1	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike	10/12/2010	Metal	Mercury	Total	=	1080	ng/L	EPA 245.1	3.9	50			X
2010/11-1	000NONPJ	matrix spike	10/12/2010	Metal	Mercury	Total	=	981	ng/L	EPA 245.1	3.9	50			
2010/11-1	000NONPJ	matrix spike	10/12/2010	Metal	Mercury	Total	=	969	ng/L	EPA 245.1	3.9	50			
2010/11-1	000NONPJ	matrix spike	10/12/2010	Metal	Mercury	Total	=	862	ng/L	EPA 245.1	3.9	50			X
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Metal	Mercury	Total	=	1080	ng/L	EPA 245.1	3.9	50			
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Metal	Mercury	Total	=	850	ng/L	EPA 245.1	3.9	50			X
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Metal	Mercury	Total	=	1040	ng/L	EPA 245.1	3.9	50			X
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Metal	Mercury	Total	=	928	ng/L	EPA 245.1	3.9	50			
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Metal	Mercury	Total	=	90	%	EPA 245.1	-88	-88	70	130	
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Metal	Mercury	Total	=	101	%	EPA 245.1	-88	-88	70	130	X
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Metal	Mercury	Total	=	82	%	EPA 245.1	-88	-88	70	130	X
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Metal	Mercury	Total	=	105	%	EPA 245.1	-88	-88	70	130	
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Metal	Mercury	Total	=	105	%	EPA 245.1	-88	-88	70	130	X
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Metal	Mercury	Total	=	95	%	EPA 245.1	-88	-88	70	130	
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Metal	Mercury	Total	=	94	%	EPA 245.1	-88	-88	70	130	
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Metal	Mercury	Total	=	83	%	EPA 245.1	-88	-88	70	130	X
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Metal	Mercury	Total	=	4	%	EPA 245.1	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Metal	Mercury	Total	=	4	%	EPA 245.1	-88	-88	0	20	X
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Metal	Mercury	Total	=	10	%	EPA 245.1	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Metal	Mercury	Total	=	1	%	EPA 245.1	-88	-88	0	20	X
2010/11-1	Lab	LCS	10/12/2010	Metal	Mercury	Total	=	990	ng/L	EPA 245.1	3.9	50			
2010/11-1	Lab	LCS	10/12/2010	Metal	Mercury	Total	=	941	ng/L	EPA 245.1	3.9	50			X
2010/11-1	Lab	LCS, rec	10/12/2010	Metal	Mercury	Total	=	94	%	EPA 245.1	-88	-88	85	115	X
2010/11-1	Lab	LCS, rec	10/12/2010	Metal	Mercury	Total	=	99	%	EPA 245.1	-88	-88	85	115	
2010/11-1	Lab	method blank	10/12/2010	Metal	Mercury	Total	DNQ	32	ng/L	EPA 245.1	3.9	50			IP,J
2010/11-1	Lab	method blank	10/12/2010	Metal	Mercury	Total	DNQ	32	ng/L	EPA 245.1	3.9	50			IP
2010/11-1	Lab	LCS	10/18/2010	Metal	Mercury	Total	=	1040	ng/L	EPA 245.1	3.9	50			
2010/11-1	Lab	LCS, rec	10/18/2010	Metal	Mercury	Total	=	104	%	EPA 245.1	-88	-88	85	115	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	method blank	10/18/2010	Metal	Mercury	Total	DNQ	33	ng/L	EPA 245.1	3.9	50			IP
2010/11-1	MO-MEI	field duplicate	10/12/2010	Metal	Mercury	Total	=	53	ng/L	EPA 245.1	3.9	50			IP
2010/11-1	MO-MPK	matrix spike	10/18/2010	Metal	Mercury	Total	=	1020	ng/L	EPA 245.1	3.9	50			
2010/11-1	MO-MPK	matrix spike dup	10/18/2010	Metal	Mercury	Total	=	1040	ng/L	EPA 245.1	3.9	50			
2010/11-1	MO-MPK	matrix spike dup, rec	10/18/2010	Metal	Mercury	Total	=	99	%	EPA 245.1	-88	-88	70	130	
2010/11-1	MO-MPK	matrix spike, rec	10/18/2010	Metal	Mercury	Total	=	97	%	EPA 245.1	-88	-88	70	130	
2010/11-1	MO-MPK	matrix spike, RPD	10/18/2010	Metal	Mercury	Total	=	2	%	EPA 245.1	-88	-88	0	20	
2010/11-1	MO-THO	matrix spike	10/18/2010	Metal	Mercury	Total	=	1020	ng/L	EPA 245.1	3.9	50			
2010/11-1	MO-THO	matrix spike dup	10/18/2010	Metal	Mercury	Total	=	1040	ng/L	EPA 245.1	3.9	50			
2010/11-1	MO-THO	matrix spike dup, rec	10/18/2010	Metal	Mercury	Total	=	98	%	EPA 245.1	-88	-88	70	130	
2010/11-1	MO-THO	matrix spike, rec	10/18/2010	Metal	Mercury	Total	=	96	%	EPA 245.1	-88	-88	70	130	
2010/11-1	MO-THO	matrix spike, RPD	10/18/2010	Metal	Mercury	Total	=	2	%	EPA 245.1	-88	-88	0	20	
2010/11-1	Lab	LCS	10/13/2010	Metal	Nickel	Dissolved	=	48.3	µg/L	EPA 200.8	0.011	0.8			
2010/11-1	Lab	LCS	10/13/2010	Metal	Nickel	Dissolved	=	50.6	µg/L	EPA 200.8	0.011	0.8			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Nickel	Dissolved	=	97	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Nickel	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Nickel	Dissolved	DNQ	0.0926	µg/L	EPA 200.8	0.011	0.8			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Nickel	Dissolved	DNQ	0.182	µg/L	EPA 200.8	0.011	0.8			IP
2010/11-1	Lab	LCS	10/13/2010	Metal	Nickel	Total	=	50.6	µg/L	EPA 200.8	0.011	0.8			
2010/11-1	Lab	LCS	10/13/2010	Metal	Nickel	Total	=	48.3	µg/L	EPA 200.8	0.011	0.8			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Nickel	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Nickel	Total	=	97	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Nickel	Total	DNQ	0.182	µg/L	EPA 200.8	0.011	0.8			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Nickel	Total	DNQ	0.0926	µg/L	EPA 200.8	0.011	0.8			IP
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Nickel	Total	=	65.4	µg/L	EPA 200.8	0.011	0.8			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Nickel	Total	=	62.3	µg/L	EPA 200.8	0.011	0.8			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Nickel	Total	=	112	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Nickel	Total	=	118	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Nickel	Total	=	5	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Nickel	Total	=	61.1	µg/L	EPA 200.8	0.011	0.8			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Nickel	Total	=	58.8	µg/L	EPA 200.8	0.011	0.8			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Nickel	Total	=	107	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Nickel	Total	=	112	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Nickel	Total	=	4	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Nickel	Total	=	53.2	µg/L	EPA 200.8	0.011	0.8			
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Nickel	Total	=	55.7	µg/L	EPA 200.8	0.011	0.8			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Nickel	Total	=	95	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Nickel	Total	=	90	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Nickel	Total	=	5	%	EPA 200.8	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Metal	Selenium	Dissolved	=	53	µg/L	EPA 200.8	0.017	0.4			
2010/11-1	Lab	LCS	10/13/2010	Metal	Selenium	Dissolved	=	51	µg/L	EPA 200.8	0.017	0.4			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Selenium	Dissolved	=	106	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Selenium	Dissolved	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Selenium	Dissolved	DNQ	0.0174	µg/L	EPA 200.8	0.017	0.4			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Selenium	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.4			
2010/11-1	Lab	LCS	10/13/2010	Metal	Selenium	Total	=	51	µg/L	EPA 200.8	0.017	0.4			
2010/11-1	Lab	LCS	10/13/2010	Metal	Selenium	Total	=	53	µg/L	EPA 200.8	0.017	0.4			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Selenium	Total	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Selenium	Total	=	106	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Selenium	Total	DNQ	0.0174	µg/L	EPA 200.8	0.017	0.4			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Selenium	Total	<	0.017	µg/L	EPA 200.8	0.017	0.4			
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Selenium	Total	=	49.5	µg/L	EPA 200.8	0.017	0.4			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Selenium	Total	=	51.3	µg/L	EPA 200.8	0.017	0.4			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Selenium	Total	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Selenium	Total	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Selenium	Total	=	4	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Selenium	Total	=	43.8	µg/L	EPA 200.8	0.017	0.4			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Selenium	Total	=	42.5	µg/L	EPA 200.8	0.017	0.4			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Selenium	Total	=	84	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Selenium	Total	=	87	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Selenium	Total	=	3	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Selenium	Total	=	49.7	µg/L	EPA 200.8	0.017	0.4			
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Selenium	Total	=	52.1	µg/L	EPA 200.8	0.017	0.4			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Selenium	Total	=	102	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Selenium	Total	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Selenium	Total	=	5	%	EPA 200.8	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Metal	Silver	Dissolved	=	46.9	µg/L	EPA 200.8	0.008	0.2			
2010/11-1	Lab	LCS	10/13/2010	Metal	Silver	Dissolved	=	47.7	µg/L	EPA 200.8	0.008	0.2			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Silver	Dissolved	=	94	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Silver	Dissolved	=	96	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Silver	Dissolved	DNQ	0.012	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Silver	Dissolved	DNQ	0.0218	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-1	Lab	LCS	10/13/2010	Metal	Silver	Total	=	47.7	µg/L	EPA 200.8	0.008	0.2			
2010/11-1	Lab	LCS	10/13/2010	Metal	Silver	Total	=	46.9	µg/L	EPA 200.8	0.008	0.2			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Silver	Total	=	94	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Silver	Total	=	96	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Silver	Total	DNQ	0.0218	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Silver	Total	DNQ	0.012	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Silver	Total	=	44	µg/L	EPA 200.8	0.008	0.2			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Silver	Total	=	43.7	µg/L	EPA 200.8	0.008	0.2			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Silver	Total	=	87	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Silver	Total	=	88	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Silver	Total	=	0.8	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Silver	Total	=	40.8	µg/L	EPA 200.8	0.008	0.2			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Silver	Total	=	40.4	µg/L	EPA 200.8	0.008	0.2			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Silver	Total	=	81	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Silver	Total	=	82	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Silver	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Silver	Total	=	44.4	µg/L	EPA 200.8	0.008	0.2			
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Silver	Total	=	45	µg/L	EPA 200.8	0.008	0.2			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Silver	Total	=	90	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Silver	Total	=	89	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Silver	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Metal	Thallium	Dissolved	=	50.1	µg/L	EPA 200.8	0.02	0.2			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS	10/13/2010	Metal	Thallium	Dissolved	=	49.8	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Thallium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Thallium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	Lab	method blank	10/13/2010	Metal	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	Lab	LCS	10/13/2010	Metal	Thallium	Total	=	49.8	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	Lab	LCS	10/13/2010	Metal	Thallium	Total	=	50.1	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Thallium	Total	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Thallium	Total	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	Lab	method blank	10/13/2010	Metal	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Thallium	Total	=	52.9	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Thallium	Total	=	53.7	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Thallium	Total	=	107	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Thallium	Total	=	106	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Thallium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Thallium	Total	=	57.5	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Thallium	Total	=	57.2	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Thallium	Total	=	114	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Thallium	Total	=	115	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Thallium	Total	=	0.6	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Thallium	Total	=	50.7	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Thallium	Total	=	51.2	µg/L	EPA 200.8	0.02	0.2			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Thallium	Total	=	102	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Thallium	Total	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Thallium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Metal	Zinc	Dissolved	=	51.7	µg/L	EPA 200.8	0.3	5			
2010/11-1	Lab	LCS	10/13/2010	Metal	Zinc	Dissolved	=	53.3	µg/L	EPA 200.8	0.3	5			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Zinc	Dissolved	=	107	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Zinc	Dissolved	=	103	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Zinc	Dissolved	DNQ	0.311	µg/L	EPA 200.8	0.3	5			IP
2010/11-1	Lab	method blank	10/13/2010	Metal	Zinc	Dissolved	<	0.3	µg/L	EPA 200.8	0.3	5			
2010/11-1	Lab	LCS	10/13/2010	Metal	Zinc	Total	=	51.7	µg/L	EPA 200.8	0.3	5			
2010/11-1	Lab	LCS	10/13/2010	Metal	Zinc	Total	=	53.3	µg/L	EPA 200.8	0.3	5			
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Zinc	Total	=	103	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	LCS, rec	10/13/2010	Metal	Zinc	Total	=	107	%	EPA 200.8	-88	-88	85	115	
2010/11-1	Lab	method blank	10/13/2010	Metal	Zinc	Total	<	0.3	µg/L	EPA 200.8	0.3	5			
2010/11-1	Lab	method blank	10/13/2010	Metal	Zinc	Total	DNQ	0.311	µg/L	EPA 200.8	0.3	5			IP
2010/11-1	ME-VR2	matrix spike	10/13/2010	Metal	Zinc	Total	=	76	µg/L	EPA 200.8	0.3	5			
2010/11-1	ME-VR2	matrix spike dup	10/13/2010	Metal	Zinc	Total	=	61.4	µg/L	EPA 200.8	0.3	5			
2010/11-1	ME-VR2	matrix spike dup, rec	10/13/2010	Metal	Zinc	Total	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, rec	10/13/2010	Metal	Zinc	Total	=	127	%	EPA 200.8	-88	-88	70	130	
2010/11-1	ME-VR2	matrix spike, RPD	10/13/2010	Metal	Zinc	Total	=	21	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-HUE	matrix spike	10/13/2010	Metal	Zinc	Total	=	77.7	µg/L	EPA 200.8	0.3	5			
2010/11-1	MO-HUE	matrix spike dup	10/13/2010	Metal	Zinc	Total	=	77.4	µg/L	EPA 200.8	0.3	5			
2010/11-1	MO-HUE	matrix spike dup, rec	10/13/2010	Metal	Zinc	Total	=	81	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-HUE	matrix spike, rec	10/13/2010	Metal	Zinc	Total	=	82	%	EPA 200.8	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-HUE	matrix spike, RPD	10/13/2010	Metal	Zinc	Total	=	0.4	%	EPA 200.8	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/13/2010	Metal	Zinc	Total	=	267	µg/L	EPA 200.8	0.3	5			
2010/11-1	MO-VEN	matrix spike dup	10/13/2010	Metal	Zinc	Total	=	275	µg/L	EPA 200.8	0.3	5			
2010/11-1	MO-VEN	matrix spike dup, rec	10/13/2010	Metal	Zinc	Total	=	107	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, rec	10/13/2010	Metal	Zinc	Total	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-1	MO-VEN	matrix spike, RPD	10/13/2010	Metal	Zinc	Total	=	3	%	EPA 200.8	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/13/2010	Nutrient	Ammonia as N	n/a	=	1.26	mg/L	EPA 350.1	0.048	0.1			
2010/11-1	000NONPJ	matrix spike	10/13/2010	Nutrient	Ammonia as N	n/a	=	1.39	mg/L	EPA 350.1	0.048	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/13/2010	Nutrient	Ammonia as N	n/a	=	1.4	mg/L	EPA 350.1	0.048	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/13/2010	Nutrient	Ammonia as N	n/a	=	1.14	mg/L	EPA 350.1	0.048	0.1			GB
2010/11-1	000NONPJ	matrix spike dup, rec	10/13/2010	Nutrient	Ammonia as N	n/a	=	79	%	EPA 350.1	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike dup, rec	10/13/2010	Nutrient	Ammonia as N	n/a	=	92	%	EPA 350.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/13/2010	Nutrient	Ammonia as N	n/a	=	91	%	EPA 350.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/13/2010	Nutrient	Ammonia as N	n/a	=	91	%	EPA 350.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, RPD	10/13/2010	Nutrient	Ammonia as N	n/a	=	10	%	EPA 350.1	-88	-88	0	10	
2010/11-1	000NONPJ	matrix spike, RPD	10/13/2010	Nutrient	Ammonia as N	n/a	=	0.7	%	EPA 350.1	-88	-88	0	10	
2010/11-1	000NONPJ	matrix spike	10/20/2010	Nutrient	Ammonia as N	n/a	=	1.05	mg/L	EPA 350.1	0.048	0.1			
2010/11-1	000NONPJ	matrix spike	10/20/2010	Nutrient	Ammonia as N	n/a	=	1.04	mg/L	EPA 350.1	0.048	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/20/2010	Nutrient	Ammonia as N	n/a	=	0.945	mg/L	EPA 350.1	0.048	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/20/2010	Nutrient	Ammonia as N	n/a	=	1.02	mg/L	EPA 350.1	0.048	0.1			
2010/11-1	000NONPJ	matrix spike dup, rec	10/20/2010	Nutrient	Ammonia as N	n/a	=	97	%	EPA 350.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike dup, rec	10/20/2010	Nutrient	Ammonia as N	n/a	=	94	%	EPA 350.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/20/2010	Nutrient	Ammonia as N	n/a	=	105	%	EPA 350.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/20/2010	Nutrient	Ammonia as N	n/a	=	99	%	EPA 350.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, RPD	10/20/2010	Nutrient	Ammonia as N	n/a	=	2	%	EPA 350.1	-88	-88	0	10	
2010/11-1	000NONPJ	matrix spike, RPD	10/20/2010	Nutrient	Ammonia as N	n/a	=	11	%	EPA 350.1	-88	-88	0	10	IL
2010/11-1	Lab	LCS	10/13/2010	Nutrient	Ammonia as N	n/a	=	0.962	mg/L	EPA 350.1	0.048	0.1			
2010/11-1	Lab	LCS, rec	10/13/2010	Nutrient	Ammonia as N	n/a	=	96	%	EPA 350.1	-88	-88	90	110	
2010/11-1	Lab	method blank	10/13/2010	Nutrient	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1			
2010/11-1	Lab	LCS	10/20/2010	Nutrient	Ammonia as N	n/a	=	1.03	mg/L	EPA 350.1	0.048	0.1			
2010/11-1	Lab	LCS, rec	10/20/2010	Nutrient	Ammonia as N	n/a	=	103	%	EPA 350.1	-88	-88	90	110	
2010/11-1	Lab	method blank	10/20/2010	Nutrient	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1			
2010/11-1	000NONPJ	matrix spike	10/7/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	11.9	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/7/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	11.7	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	000NONPJ	matrix spike dup, rec	10/7/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	106	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/7/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	112	%	EPA 353.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/7/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	4.06	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	000NONPJ	matrix spike	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	4.76	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	4.74	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	4.16	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	000NONPJ	matrix spike dup, rec	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	108	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike dup, rec	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	103	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	97	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	108	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, RPD	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	0.3	%	EPA 353.2	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike, RPD	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	3	%	EPA 353.2	-88	-88	0	20	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	11.2	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	000NONPJ	matrix spike	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	8.02	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	11.1	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	8.05	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	110	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	104	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	103	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	113	%	EPA 353.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	0.3	%	EPA 353.2	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	0.7	%	EPA 353.2	-88	-88	0	20	
2010/11-1	Lab	LCS	10/7/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	0.97	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	Lab	LCS, rec	10/7/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	97	%	EPA 353.2	-88	-88	90	110	
2010/11-1	Lab	method blank	10/7/2010	Nutrient	Nitrate + Nitrite as N	n/a	<	0.01	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	Lab	LCS	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	1.03	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	Lab	LCS, rec	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	103	%	EPA 353.2	-88	-88	90	110	
2010/11-1	Lab	method blank	10/8/2010	Nutrient	Nitrate + Nitrite as N	n/a	<	0.01	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	Lab	LCS	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	0.973	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	Lab	LCS, rec	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	97	%	EPA 353.2	-88	-88	90	110	
2010/11-1	Lab	method blank	10/12/2010	Nutrient	Nitrate + Nitrite as N	n/a	<	0.01	mg/L	EPA 353.2	0.01	0.1			
2010/11-1	000NONPJ	matrix spike	10/7/2010	Nutrient	Nitrate as N	n/a	=	11.9	mg/L	EPA 353.2	0.041	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/7/2010	Nutrient	Nitrate as N	n/a	=	11.7	mg/L	EPA 353.2	0.041	0.1			
2010/11-1	000NONPJ	matrix spike dup, rec	10/7/2010	Nutrient	Nitrate as N	n/a	=	106	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/7/2010	Nutrient	Nitrate as N	n/a	=	112	%	EPA 353.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/7/2010	Nutrient	Nitrate as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike	10/8/2010	Nutrient	Nitrate as N	n/a	=	4.06	mg/L	EPA 353.2	0.041	0.1			
2010/11-1	000NONPJ	matrix spike	10/8/2010	Nutrient	Nitrate as N	n/a	=	4.76	mg/L	EPA 353.2	0.041	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/8/2010	Nutrient	Nitrate as N	n/a	=	4.74	mg/L	EPA 353.2	0.041	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/8/2010	Nutrient	Nitrate as N	n/a	=	4.16	mg/L	EPA 353.2	0.041	0.1			
2010/11-1	000NONPJ	matrix spike dup, rec	10/8/2010	Nutrient	Nitrate as N	n/a	=	103	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike dup, rec	10/8/2010	Nutrient	Nitrate as N	n/a	=	108	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/8/2010	Nutrient	Nitrate as N	n/a	=	108	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/8/2010	Nutrient	Nitrate as N	n/a	=	97	%	EPA 353.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, RPD	10/8/2010	Nutrient	Nitrate as N	n/a	=	3	%	EPA 353.2	-88	-88	0	20	
2010/11-1	000NONPJ	matrix spike, RPD	10/8/2010	Nutrient	Nitrate as N	n/a	=	0.3	%	EPA 353.2	-88	-88	0	20	
2010/11-1	Lab	LCS	10/7/2010	Nutrient	Nitrate as N	n/a	=	0.97	mg/L	EPA 353.2	0.041	0.1			
2010/11-1	Lab	LCS, rec	10/7/2010	Nutrient	Nitrate as N	n/a	=	97	%	EPA 353.2	-88	-88	90	110	
2010/11-1	Lab	method blank	10/7/2010	Nutrient	Nitrate as N	n/a	<	0.041	mg/L	EPA 353.2	0.041	0.1			
2010/11-1	Lab	LCS	10/8/2010	Nutrient	Nitrate as N	n/a	=	1.03	mg/L	EPA 353.2	0.041	0.1			
2010/11-1	Lab	LCS, rec	10/8/2010	Nutrient	Nitrate as N	n/a	=	103	%	EPA 353.2	-88	-88	90	110	
2010/11-1	Lab	method blank	10/8/2010	Nutrient	Nitrate as N	n/a	<	0.041	mg/L	EPA 353.2	0.041	0.1			
2010/11-1	000NONPJ	matrix spike	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	0.148	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	000NONPJ	matrix spike	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	0.176	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	0.174	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	0.149	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	94	%	EPA 365.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike dup, rec	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	99	%	EPA 365.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	97	%	EPA 365.1	-88	-88	90	110	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike, rec	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	98	%	EPA 365.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, RPD	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	1	%	EPA 365.1	-88	-88	0	10	
2010/11-1	000NONPJ	matrix spike, RPD	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	0.7	%	EPA 365.1	-88	-88	0	10	
2010/11-1	Lab	LCS	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	0.0469	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	Lab	LCS, rec	10/20/2010	Nutrient	Phosphorus as P	Dissolved	=	94	%	EPA 365.1	-88	-88	90	110	
2010/11-1	Lab	method blank	10/20/2010	Nutrient	Phosphorus as P	Dissolved	DNQ	0.0015	mg/L	EPA 365.1	0.0014	0.01			IP
2010/11-1	Lab	LCS	10/26/2010	Nutrient	Phosphorus as P	Dissolved	=	0.0469	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	Lab	LCS, rec	10/26/2010	Nutrient	Phosphorus as P	Dissolved	=	94	%	EPA 365.1	-88	-88	90	110	
2010/11-1	Lab	method blank	10/26/2010	Nutrient	Phosphorus as P	Dissolved	DNQ	0.0032	mg/L	EPA 365.1	0.0014	0.01			IP
2010/11-1	000NONPJ	matrix spike	10/20/2010	Nutrient	Phosphorus as P	Total	=	0.176	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	000NONPJ	matrix spike	10/20/2010	Nutrient	Phosphorus as P	Total	=	0.148	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/20/2010	Nutrient	Phosphorus as P	Total	=	0.149	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/20/2010	Nutrient	Phosphorus as P	Total	=	0.174	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/20/2010	Nutrient	Phosphorus as P	Total	=	99	%	EPA 365.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike dup, rec	10/20/2010	Nutrient	Phosphorus as P	Total	=	94	%	EPA 365.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/20/2010	Nutrient	Phosphorus as P	Total	=	98	%	EPA 365.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, rec	10/20/2010	Nutrient	Phosphorus as P	Total	=	97	%	EPA 365.1	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, RPD	10/20/2010	Nutrient	Phosphorus as P	Total	=	1	%	EPA 365.1	-88	-88	0	10	
2010/11-1	000NONPJ	matrix spike, RPD	10/20/2010	Nutrient	Phosphorus as P	Total	=	0.7	%	EPA 365.1	-88	-88	0	10	
2010/11-1	Lab	LCS	10/20/2010	Nutrient	Phosphorus as P	Total	=	0.0469	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	Lab	LCS, rec	10/20/2010	Nutrient	Phosphorus as P	Total	=	94	%	EPA 365.1	-88	-88	90	110	
2010/11-1	Lab	method blank	10/20/2010	Nutrient	Phosphorus as P	Total	DNQ	0.0015	mg/L	EPA 365.1	0.0014	0.01			IP
2010/11-1	Lab	LCS	10/26/2010	Nutrient	Phosphorus as P	Total	=	0.0469	mg/L	EPA 365.1	0.0014	0.01			
2010/11-1	Lab	LCS, rec	10/26/2010	Nutrient	Phosphorus as P	Total	=	94	%	EPA 365.1	-88	-88	90	110	
2010/11-1	Lab	method blank	10/26/2010	Nutrient	Phosphorus as P	Total	DNQ	0.0032	mg/L	EPA 365.1	0.0014	0.01			IP
2010/11-1	ME-VR2	matrix spike	10/26/2010	Nutrient	Phosphorus as P	Total	=	0.242	mg/L	EPA 365.1	0.0028	0.02			D
2010/11-1	ME-VR2	matrix spike dup	10/26/2010	Nutrient	Phosphorus as P	Total	=	0.244	mg/L	EPA 365.1	0.0028	0.02			D
2010/11-1	ME-VR2	matrix spike dup, rec	10/26/2010	Nutrient	Phosphorus as P	Total	=	100	%	EPA 365.1	-88	-88	90	110	D
2010/11-1	ME-VR2	matrix spike, rec	10/26/2010	Nutrient	Phosphorus as P	Total	=	96	%	EPA 365.1	-88	-88	90	110	D
2010/11-1	ME-VR2	matrix spike, RPD	10/26/2010	Nutrient	Phosphorus as P	Total	=	0.8	%	EPA 365.1	-88	-88	0	10	D
2010/11-1	MO-HUE	matrix spike	10/26/2010	Nutrient	Phosphorus as P	Total	=	0.448	mg/L	EPA 365.1	0.007	0.05			D
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Nutrient	Phosphorus as P	Total	=	0.45	mg/L	EPA 365.1	0.007	0.05			D
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Nutrient	Phosphorus as P	Total	=	103	%	EPA 365.1	-88	-88	90	110	D
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Nutrient	Phosphorus as P	Total	=	99	%	EPA 365.1	-88	-88	90	110	D
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Nutrient	Phosphorus as P	Total	=	0.4	%	EPA 365.1	-88	-88	0	10	D
2010/11-1	000NONPJ	matrix spike	10/12/2010	Nutrient	TKN	n/a	=	3.38	mg/L	EPA 351.2	0.092	0.12			
2010/11-1	000NONPJ	matrix spike	10/12/2010	Nutrient	TKN	n/a	=	1.14	mg/L	EPA 351.2	0.091	0.12			GB
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Nutrient	TKN	n/a	=	1.41	mg/L	EPA 351.2	0.085	0.12			GB
2010/11-1	000NONPJ	matrix spike dup	10/12/2010	Nutrient	TKN	n/a	=	2.94	mg/L	EPA 351.2	0.087	0.12			
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Nutrient	TKN	n/a	=	58	%	EPA 351.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike dup, rec	10/12/2010	Nutrient	TKN	n/a	=	113	%	EPA 351.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Nutrient	TKN	n/a	=	86	%	EPA 351.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, rec	10/12/2010	Nutrient	TKN	n/a	=	102	%	EPA 351.2	-88	-88	90	110	
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Nutrient	TKN	n/a	=	21	%	EPA 351.2	-88	-88	0	15	IL
2010/11-1	000NONPJ	matrix spike, RPD	10/12/2010	Nutrient	TKN	n/a	=	14	%	EPA 351.2	-88	-88	0	15	
2010/11-1	000NONPJ	matrix spike	10/15/2010	Nutrient	TKN	n/a	=	2.54	mg/L	EPA 351.2	0.074	0.1			
2010/11-1	000NONPJ	matrix spike dup	10/15/2010	Nutrient	TKN	n/a	=	2.44	mg/L	EPA 351.2	0.074	0.1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike dup, rec	10/15/2010	Nutrient	TKN	n/a	=	117	%	EPA 351.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, rec	10/15/2010	Nutrient	TKN	n/a	=	127	%	EPA 351.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/15/2010	Nutrient	TKN	n/a	=	4	%	EPA 351.2	-88	-88	0	15	
2010/11-1	000NONPJ	matrix spike	10/20/2010	Nutrient	TKN	n/a	=	1.37	mg/L	EPA 351.2	0.074	0.1			GB
2010/11-1	000NONPJ	matrix spike	10/20/2010	Nutrient	TKN	n/a	=	2.54	mg/L	EPA 351.2	0.074	0.1			GB
2010/11-1	000NONPJ	matrix spike dup	10/20/2010	Nutrient	TKN	n/a	=	1.59	mg/L	EPA 351.2	0.074	0.1			GB
2010/11-1	000NONPJ	matrix spike dup	10/20/2010	Nutrient	TKN	n/a	=	2.34	mg/L	EPA 351.2	0.074	0.1			GB
2010/11-1	000NONPJ	matrix spike dup, rec	10/20/2010	Nutrient	TKN	n/a	=	64	%	EPA 351.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike dup, rec	10/20/2010	Nutrient	TKN	n/a	=	80	%	EPA 351.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, rec	10/20/2010	Nutrient	TKN	n/a	=	58	%	EPA 351.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, rec	10/20/2010	Nutrient	TKN	n/a	=	84	%	EPA 351.2	-88	-88	90	110	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/20/2010	Nutrient	TKN	n/a	=	8	%	EPA 351.2	-88	-88	0	15	
2010/11-1	000NONPJ	matrix spike, RPD	10/20/2010	Nutrient	TKN	n/a	=	15	%	EPA 351.2	-88	-88	0	15	
2010/11-1	Lab	LCS	10/12/2010	Nutrient	TKN	n/a	=	1.04	mg/L	EPA 351.2	0.074	0.1			
2010/11-1	Lab	LCS, rec	10/12/2010	Nutrient	TKN	n/a	=	104	%	EPA 351.2	-88	-88	90	110	
2010/11-1	Lab	method blank	10/12/2010	Nutrient	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1			
2010/11-1	Lab	LCS	10/15/2010	Nutrient	TKN	n/a	=	1.07	mg/L	EPA 351.2	0.074	0.1			
2010/11-1	Lab	LCS, rec	10/15/2010	Nutrient	TKN	n/a	=	107	%	EPA 351.2	-88	-88	90	110	
2010/11-1	Lab	method blank	10/15/2010	Nutrient	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1			
2010/11-1	Lab	LCS	10/20/2010	Nutrient	TKN	n/a	=	1.05	mg/L	EPA 351.2	0.074	0.1			
2010/11-1	Lab	LCS, rec	10/20/2010	Nutrient	TKN	n/a	=	105	%	EPA 351.2	-88	-88	90	110	
2010/11-1	Lab	method blank	10/20/2010	Nutrient	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1			
2010/11-1	Lab	LCS	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	41.9	µg/L	EPA 625	0.26	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	42	µg/L	EPA 625	0.26	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	84	%	EPA 625	-88	-88	44	142	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	84	%	EPA 625	-88	-88	44	142	
2010/11-1	Lab	method blank	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	37.5	µg/L	EPA 625	0.26	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	37.2	µg/L	EPA 625	0.26	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	74	%	EPA 625	-88	-88	44	142	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	75	%	EPA 625	-88	-88	44	142	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	0.8	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	51.6	µg/L	EPA 625	2.6	50			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	49.3	µg/L	EPA 625	2.6	30			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	99	%	EPA 625	-88	-88	44	142	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	103	%	EPA 625	-88	-88	44	142	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	5	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	45.2	µg/L	EPA 625	0.3	2			
2010/11-1	Lab	LCS	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	44.2	µg/L	EPA 625	0.3	2			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	90	%	EPA 625	-88	-88	32	129	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	88	%	EPA 625	-88	-88	32	129	
2010/11-1	Lab	method blank	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2			
2010/11-1	Lab	method blank	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	40.7	µg/L	EPA 625	0.3	2			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	40.8	µg/L	EPA 625	0.3	2			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	82	%	EPA 625	-88	-88	32	129	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	81	%	EPA 625	-88	-88	32	129	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	0.4	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	54.7	µg/L	EPA 625	3	20			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	50.5	µg/L	EPA 625	3	20			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	101	%	EPA 625	-88	-88	32	129	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	109	%	EPA 625	-88	-88	32	129	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	1,2-Dichlorobenzene	n/a	=	8	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	srgt LCS	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.3	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt LCS dup	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.4	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt LCS dup, rec	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	114	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt LCS, rec	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	113	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt matrix spike	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	12.6	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt matrix spike dup	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.8	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt matrix spike dup, rec	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	118	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt matrix spike, rec	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	126	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt method blank	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.4	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt method blank, rec	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	114	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt LCS	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.4	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt LCS dup	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.7	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt LCS dup, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	107	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt LCS, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	114	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt method blank	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.6	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt method blank, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	116	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	ME-CC	srgt environ	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.9	µg/L	EPA 524.2	0	0			X
2010/11-1	ME-CC	srgt environ, rec	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	119	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	ME-SCR	srgt environ	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	12.2	µg/L	EPA 524.2	0	0			X
2010/11-1	ME-SCR	srgt environ, rec	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	122	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	ME-VR2	srgt environ	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	12.1	µg/L	EPA 524.2	0	0			X
2010/11-1	ME-VR2	srgt environ, rec	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	121	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-CAM	srgt environ	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	12.8	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-CAM	srgt environ, rec	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	128	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-FIL	srgt environ	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	12.5	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-FIL	srgt environ, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	125	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-HUE	srgt environ	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.8	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-HUE	srgt environ, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	118	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-MEI	srgt environ	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.8	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-MEI	srgt environ	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.6	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-MEI	srgt environ, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	116	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-MEI	srgt environ, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	118	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-MPK	srgt environ	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	12.1	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-MPK	srgt environ, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	121	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-OJA	srgt environ	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	12.3	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-OJA	srgt environ, rec	10/8/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	123	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-OXN	srgt environ	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	12.1	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-OXN	srgt environ, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	121	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-SIM	srgt environ	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	12.2	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-SIM	srgt environ, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	122	%	EPA 524.2	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-SPA	srgt environ	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.6	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-SPA	srgt environ, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	116	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-THO	srgt environ	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.9	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-THO	srgt environ, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	119	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-VEN	srgt environ	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.4	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-VEN	srgt environ, rec	10/11/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	114	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	method blank	10/19/2010	Organic	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1			
2010/11-1	Lab	method blank	10/19/2010	Organic	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1			
2010/11-1	Lab	LCS	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	45.3	µg/L	EPA 625	0.36	1			
2010/11-1	Lab	LCS	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	44.2	µg/L	EPA 625	0.36	1			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	91	%	EPA 625	-88	-88	0.1	172	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	88	%	EPA 625	-88	-88	0.1	172	
2010/11-1	Lab	method blank	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-1	Lab	method blank	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	40.2	µg/L	EPA 625	0.36	1			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	40.4	µg/L	EPA 625	0.36	1			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	81	%	EPA 625	-88	-88	0.1	172	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	80	%	EPA 625	-88	-88	0.1	172	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	0.4	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	54.4	µg/L	EPA 625	3.6	10			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	50	µg/L	EPA 625	3.6	10			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	100	%	EPA 625	-88	-88	0.1	172	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	109	%	EPA 625	-88	-88	0.1	172	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	1,3-Dichlorobenzene	n/a	=	8	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	srgt LCS	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.36	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt LCS	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.457	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	87	%	EPA 525.2	-88	-88	73	136	
2010/11-1	Lab	srgt LCS, rec	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	91	%	EPA 525.2	-88	-88	73	136	
2010/11-1	Lab	srgt matrix spike	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.254	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt matrix spike dup	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.498	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt matrix spike dup, rec	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	100	%	EPA 525.2	-88	-88	73	136	
2010/11-1	Lab	srgt matrix spike, rec	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	51	%	EPA 525.2	-88	-88	73	136	GN
2010/11-1	Lab	srgt method blank	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.446	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt method blank	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.48	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	89	%	EPA 525.2	-88	-88	73	136	
2010/11-1	Lab	srgt method blank, rec	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	90	%	EPA 525.2	-88	-88	73	136	
2010/11-1	Lab	srgt LCS	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.19	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	84	%	EPA 525.2	-88	-88	73	136	
2010/11-1	Lab	srgt method blank	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.2	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	84	%	EPA 525.2	-88	-88	73	136	
2010/11-1	Lab	srgt LCS	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.551	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt LCS, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	110	%	EPA 525.2	-88	-88	73	136	
2010/11-1	Lab	srgt matrix spike	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.562	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt matrix spike dup	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.547	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt matrix spike dup, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	109	%	EPA 525.2	-88	-88	73	136	
2010/11-1	Lab	srgt matrix spike, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	112	%	EPA 525.2	-88	-88	73	136	
2010/11-1	Lab	srgt method blank	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.551	µg/L	EPA 525.2	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	srgt method blank, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	110	%	EPA 525.2	-88	-88	73	136	
2010/11-1	ME-CC	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.37	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-CC	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	87	%	EPA 525.2	-88	-88	73	136	
2010/11-1	ME-CC	srgt environ	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.567	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-CC	srgt environ, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	113	%	EPA 525.2	-88	-88	73	136	
2010/11-1	ME-SCR	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.34	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	87	%	EPA 525.2	-88	-88	73	136	
2010/11-1	ME-SCR	srgt environ	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.576	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	115	%	EPA 525.2	-88	-88	73	136	
2010/11-1	ME-VR2	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.26	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	85	%	EPA 525.2	-88	-88	73	136	
2010/11-1	ME-VR2	srgt environ	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.585	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	117	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-CAM	srgt environ	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.26	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	85	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-CAM	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.641	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	128	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-FIL	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.63	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	88	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-FIL	srgt environ	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.579	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	116	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-HUE	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.5	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-HUE	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.514	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	90	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-HUE	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	103	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-HUE	srgt matrix spike	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.43	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-HUE	srgt matrix spike dup	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.36	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-HUE	srgt matrix spike dup, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	87	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-HUE	srgt matrix spike, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	89	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-MEI	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.51	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-MEI	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.259	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	52	%	EPA 525.2	-88	-88	73	136	GN
2010/11-1	MO-MEI	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	90	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-MPK	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.31	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-MPK	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	86	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-MPK	srgt environ	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.591	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-MPK	srgt environ, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	118	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-OJA	srgt environ	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.54	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	91	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-OJA	srgt matrix spike	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.4	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OJA	srgt matrix spike, rec	10/25/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	88	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-OJA	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.39	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	78	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-OJA	srgt matrix spike dup	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.39	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OJA	srgt matrix spike dup, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	88	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-OXN	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.57	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OXN	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.26	µg/L	EPA 525.2	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-OXN	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	84	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-OXN	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	52	%	EPA 525.2	-88	-88	73	136	GN
2010/11-1	MO-SIM	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.12	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-SIM	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	82	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-SIM	srgt environ	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.575	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-SIM	srgt environ, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	115	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-SPA	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.02	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	80	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-SPA	srgt environ	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.58	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	116	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-THO	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.23	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	85	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-THO	srgt environ	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.567	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	11/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	113	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-VEN	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.38	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-VEN	srgt environ	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.268	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	88	%	EPA 525.2	-88	-88	73	136	
2010/11-1	MO-VEN	srgt environ, rec	10/26/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	54	%	EPA 525.2	-88	-88	73	136	GN
2010/11-1	Lab	LCS	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	44.1	µg/L	EPA 625	0.32	1			
2010/11-1	Lab	LCS	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	45	µg/L	EPA 625	0.32	1			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	90	%	EPA 625	-88	-88	20	124	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	88	%	EPA 625	-88	-88	20	124	
2010/11-1	Lab	method blank	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1			
2010/11-1	Lab	method blank	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	39.9	µg/L	EPA 625	0.32	1			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	40.3	µg/L	EPA 625	0.32	1			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	81	%	EPA 625	-88	-88	20	124	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	80	%	EPA 625	-88	-88	20	124	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	0.8	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	54.6	µg/L	EPA 625	3.2	10			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	50.3	µg/L	EPA 625	3.2	10			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	101	%	EPA 625	-88	-88	20	124	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	109	%	EPA 625	-88	-88	20	124	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	1,4-Dichlorobenzene	n/a	=	8	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	method blank	10/22/2010	Organic	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1			
2010/11-1	Lab	method blank	10/22/2010	Organic	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1			
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	91.9	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	88.5	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	89	%	EPA 625	-88	-88	0.1	157	
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	92	%	EPA 625	-88	-88	0.1	157	
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	77.7	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	81.3	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	81	%	EPA 625	-88	-88	0.1	157	
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	78	%	EPA 625	-88	-88	0.1	157	
2010/11-1	Lab	srgt LCS	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	14.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	13.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	68	%	EPA 8270Cm	-88	-88	44	115	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	srgt LCS, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	71	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	Lab	srgt method blank	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	11.8	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt method blank	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	14.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	71	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	Lab	srgt method blank, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	59	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	ME-CC	srgt environ	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	86.2	µg/L	EPA 625	-88	-88			D
2010/11-1	ME-CC	srgt environ, rec	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	86	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	ME-CC	srgt environ	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	13.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt environ, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	67	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	ME-CC	srgt matrix spike	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	14.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt matrix spike dup	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	13.3	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt matrix spike dup, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	67	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	ME-CC	srgt matrix spike, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	72	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	ME-SCR	srgt matrix spike	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	66.8	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	59.5	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	60	%	EPA 625	-88	-88	0.1	157	
2010/11-1	ME-SCR	srgt matrix spike, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	67	%	EPA 625	-88	-88	0.1	157	
2010/11-1	ME-SCR	srgt environ	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	45.7	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	46	%	EPA 625	-88	-88	0.1	157	
2010/11-1	ME-SCR	srgt environ	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	11.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	56	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	ME-VR2	srgt environ	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	86.1	µg/L	EPA 625	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	86	%	EPA 625	-88	-88	0.1	157	
2010/11-1	ME-VR2	srgt environ	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	14.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	73	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-CAM	srgt environ	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	95.6	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-CAM	srgt environ, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	96	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	MO-CAM	srgt environ	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	14.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	72	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-FIL	srgt environ	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	79.4	µg/L	EPA 625	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	79	%	EPA 625	-88	-88	0.1	157	
2010/11-1	MO-FIL	srgt environ	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	15.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	76	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-HUE	srgt environ	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	84.8	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-HUE	srgt environ, rec	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	85	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	MO-HUE	srgt environ	10/23/2010	Organic	2,4,6-Tribromophenol	n/a	=	15.8	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/23/2010	Organic	2,4,6-Tribromophenol	n/a	=	79	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-MEI	srgt environ	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	88.4	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MEI	srgt environ, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	88	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	MO-MEI	srgt environ	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	15.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	75	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-MPK	srgt environ	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	87.1	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MPK	srgt environ, rec	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	87	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	MO-MPK	srgt environ	10/23/2010	Organic	2,4,6-Tribromophenol	n/a	=	13.7	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MPK	srgt environ, rec	10/23/2010	Organic	2,4,6-Tribromophenol	n/a	=	68	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-OJA	srgt environ	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	87	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OJA	srgt environ, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	87	%	EPA 625	-88	-88	0.1	157	D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-OJA	srgt environ	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	14.7	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	73	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-OXN	srgt environ	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	90.5	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OXN	srgt environ, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	90	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	MO-OXN	srgt environ	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	15.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt environ, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	78	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-OXN	srgt matrix spike	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	14.7	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	15.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	76	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-OXN	srgt matrix spike, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	73	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-SIM	srgt environ	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	84	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-SIM	srgt environ, rec	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	80	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	MO-SIM	srgt environ	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	15.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SIM	srgt environ, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	78	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-SPA	srgt environ	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	96.1	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-SPA	srgt environ, rec	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	91	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	MO-SPA	srgt environ	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	16.5	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	78	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-THO	srgt environ	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	89.4	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-THO	srgt environ, rec	10/20/2010	Organic	2,4,6-Tribromophenol	n/a	=	89	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	MO-THO	srgt environ	10/23/2010	Organic	2,4,6-Tribromophenol	n/a	=	12.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/23/2010	Organic	2,4,6-Tribromophenol	n/a	=	60	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	MO-VEN	srgt environ	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	88.9	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt environ, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	89	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	MO-VEN	srgt matrix spike	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	111	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt matrix spike dup	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	103	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt matrix spike dup, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	103	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	MO-VEN	srgt matrix spike, rec	10/19/2010	Organic	2,4,6-Tribromophenol	n/a	=	111	%	EPA 625	-88	-88	0.1	157	D
2010/11-1	MO-VEN	srgt environ	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	11.5	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/22/2010	Organic	2,4,6-Tribromophenol	n/a	=	55	%	EPA 8270Cm	-88	-88	44	115	
2010/11-1	Lab	LCS	10/22/2010	Organic	2,4,6-Trichlorophenol	n/a	=	5.22	µg/L	EPA 8270Cm	0.3	1			
2010/11-1	Lab	LCS	10/22/2010	Organic	2,4,6-Trichlorophenol	n/a	=	5.05	µg/L	EPA 8270Cm	0.3	1			
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2,4,6-Trichlorophenol	n/a	=	104	%	EPA 8270Cm	-88	-88	52	150	
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2,4,6-Trichlorophenol	n/a	=	101	%	EPA 8270Cm	-88	-88	52	150	
2010/11-1	Lab	method blank	10/22/2010	Organic	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			
2010/11-1	Lab	method blank	10/22/2010	Organic	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			
2010/11-1	Lab	LCS	10/22/2010	Organic	2,4-Dichlorophenol	n/a	=	4.4	µg/L	EPA 8270Cm	0.51	1			
2010/11-1	Lab	LCS	10/22/2010	Organic	2,4-Dichlorophenol	n/a	=	4.06	µg/L	EPA 8270Cm	0.51	1			
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2,4-Dichlorophenol	n/a	=	88	%	EPA 8270Cm	-88	-88	53	106	
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2,4-Dichlorophenol	n/a	=	81	%	EPA 8270Cm	-88	-88	53	106	
2010/11-1	Lab	method blank	10/22/2010	Organic	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1			
2010/11-1	Lab	method blank	10/22/2010	Organic	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1			
2010/11-1	Lab	srgt LCS	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.7	µg/L	EPA 515.3	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	97	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	srgt method blank	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.66	µg/L	EPA 515.3	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	97	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-CC	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.31	µg/L	EPA 515.3	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-CC	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	83	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.2	µg/L	EPA 515.3	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	102	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	srgt matrix spike	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.2	µg/L	EPA 515.3	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.61	µg/L	EPA 515.3	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	96	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	srgt matrix spike, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	102	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-VR2	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.4	µg/L	EPA 515.3	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	94	%	EPA 515.3	-88	-88	70	130	
2010/11-1	MO-CAM	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.52	µg/L	EPA 515.3	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-1	MO-FIL	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.91	µg/L	EPA 515.3	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-1	MO-HUE	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.01	µg/L	EPA 515.3	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-1	MO-MEI	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.58	µg/L	EPA 515.3	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-1	MO-MPK	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.64	µg/L	EPA 515.3	-88	-88			
2010/11-1	MO-MPK	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-1	MO-OJA	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.59	µg/L	EPA 515.3	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-1	MO-OXN	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.41	µg/L	EPA 515.3	-88	-88			
2010/11-1	MO-OXN	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	94	%	EPA 515.3	-88	-88	70	130	
2010/11-1	MO-SIM	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.6	µg/L	EPA 515.3	-88	-88			
2010/11-1	MO-SIM	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	106	%	EPA 515.3	-88	-88	70	130	
2010/11-1	MO-SPA	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.74	µg/L	EPA 515.3	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	97	%	EPA 515.3	-88	-88	70	130	
2010/11-1	MO-THO	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.76	µg/L	EPA 515.3	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	98	%	EPA 515.3	-88	-88	70	130	
2010/11-1	MO-VEN	srgt environ	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.48	µg/L	EPA 515.3	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/12/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	LCS	10/22/2010	Organic	2,4-Dimethylphenol	n/a	=	4.72	µg/L	EPA 8270Cm	1	2			
2010/11-1	Lab	LCS	10/22/2010	Organic	2,4-Dimethylphenol	n/a	=	3.95	µg/L	EPA 8270Cm	1	2			
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2,4-Dimethylphenol	n/a	=	94	%	EPA 8270Cm	-88	-88	21	99	
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2,4-Dimethylphenol	n/a	=	79	%	EPA 8270Cm	-88	-88	21	99	
2010/11-1	Lab	method blank	10/22/2010	Organic	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-1	Lab	method blank	10/22/2010	Organic	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-1	Lab	LCS	10/22/2010	Organic	2,4-Dinitrophenol	n/a	=	2.38	µg/L	EPA 8270Cm	1	2			
2010/11-1	Lab	LCS	10/22/2010	Organic	2,4-Dinitrophenol	n/a	=	2.42	µg/L	EPA 8270Cm	1	2			
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2,4-Dinitrophenol	n/a	=	48	%	EPA 8270Cm	-88	-88	2	227	
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2,4-Dinitrophenol	n/a	=	48	%	EPA 8270Cm	-88	-88	2	227	
2010/11-1	Lab	method blank	10/22/2010	Organic	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-1	Lab	method blank	10/22/2010	Organic	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-1	Lab	LCS	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	47.5	µg/L	EPA 625	0.4	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	45.7	µg/L	EPA 625	0.4	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	91	%	EPA 625	-88	-88	39	139	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	95	%	EPA 625	-88	-88	39	139	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	method blank	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	40.6	µg/L	EPA 625	0.4	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	39.5	µg/L	EPA 625	0.4	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	79	%	EPA 625	-88	-88	39	139	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	81	%	EPA 625	-88	-88	39	139	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	53.9	µg/L	EPA 625	4	50			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	52	µg/L	EPA 625	4	50			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	104	%	EPA 625	-88	-88	39	139	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	108	%	EPA 625	-88	-88	39	139	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	2,4-Dinitrotoluene	n/a	=	4	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	42	µg/L	EPA 625	0.24	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	40.4	µg/L	EPA 625	0.24	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	81	%	EPA 625	-88	-88	50	158	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	84	%	EPA 625	-88	-88	50	158	
2010/11-1	Lab	method blank	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	36.5	µg/L	EPA 625	0.24	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	36.2	µg/L	EPA 625	0.24	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	72	%	EPA 625	-88	-88	50	158	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	73	%	EPA 625	-88	-88	50	158	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	0.9	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	51.4	µg/L	EPA 625	2.4	50			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	49.2	µg/L	EPA 625	2.4	30			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	98	%	EPA 625	-88	-88	50	158	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	103	%	EPA 625	-88	-88	50	158	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	2,6-Dinitrotoluene	n/a	=	4	%	EPA 625	-88	-88	0	30	D
2010/11-1	000NONPJ	matrix spike	10/8/2010	Organic	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1			GB
2010/11-1	000NONPJ	matrix spike dup	10/8/2010	Organic	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1			GB
2010/11-1	000NONPJ	matrix spike dup, rec	10/8/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	0	%	EPA 524.2	-88	-88	70	130	GB
2010/11-1	000NONPJ	matrix spike, rec	10/8/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	0	%	EPA 524.2	-88	-88	70	130	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/8/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	0	%	EPA 524.2	-88	-88	0	30	GB
2010/11-1	Lab	LCS	10/8/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	4.97	µg/L	EPA 524.2	0.35	1			X
2010/11-1	Lab	LCS dup	10/8/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	5.47	µg/L	EPA 524.2	0.35	1			X
2010/11-1	Lab	LCS dup, rec	10/8/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	91	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	LCS, rec	10/8/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	83	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	LCS, RPD	10/8/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	10	%	EPA 524.2	-88	-88	0	30	X
2010/11-1	Lab	method blank	10/8/2010	Organic	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1			X
2010/11-1	Lab	LCS	10/11/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	4.79	µg/L	EPA 524.2	0.35	1			X
2010/11-1	Lab	LCS dup	10/11/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	5.08	µg/L	EPA 524.2	0.35	1			X
2010/11-1	Lab	LCS dup, rec	10/11/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	85	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	LCS, rec	10/11/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	80	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	LCS, RPD	10/11/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	6	%	EPA 524.2	-88	-88	0	30	X
2010/11-1	Lab	method blank	10/11/2010	Organic	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1			X
2010/11-1	MO-MEI	field duplicate	10/11/2010	Organic	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1			X
2010/11-1	Lab	LCS	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	43.2	µg/L	EPA 625	0.26	5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	44.3	µg/L	EPA 625	0.26	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	89	%	EPA 625	-88	-88	60	118	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	86	%	EPA 625	-88	-88	60	118	
2010/11-1	Lab	method blank	10/19/2010	Organic	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	38	µg/L	EPA 625	0.26	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	37.8	µg/L	EPA 625	0.26	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	76	%	EPA 625	-88	-88	60	118	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	76	%	EPA 625	-88	-88	60	118	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	0.6	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	55.6	µg/L	EPA 625	2.6	50			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	53	µg/L	EPA 625	2.6	50			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	106	%	EPA 625	-88	-88	60	118	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	111	%	EPA 625	-88	-88	60	118	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	2-Chloronaphthalene	n/a	=	5	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/22/2010	Organic	2-Chlorophenol	n/a	=	3.52	µg/L	EPA 8270Cm	0.65	1			
2010/11-1	Lab	LCS	10/22/2010	Organic	2-Chlorophenol	n/a	=	3.51	µg/L	EPA 8270Cm	0.65	1			
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2-Chlorophenol	n/a	=	70	%	EPA 8270Cm	-88	-88	46	92	
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2-Chlorophenol	n/a	=	70	%	EPA 8270Cm	-88	-88	46	92	
2010/11-1	Lab	method blank	10/22/2010	Organic	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1			
2010/11-1	Lab	method blank	10/22/2010	Organic	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1			
2010/11-1	ME-CC	matrix spike	10/22/2010	Organic	2-Chlorophenol	n/a	=	3.51	µg/L	EPA 8270Cm	0.65	1			
2010/11-1	ME-CC	matrix spike dup	10/22/2010	Organic	2-Chlorophenol	n/a	=	3.37	µg/L	EPA 8270Cm	0.65	1			
2010/11-1	ME-CC	matrix spike dup, rec	10/22/2010	Organic	2-Chlorophenol	n/a	=	67	%	EPA 8270Cm	-88	-88	47	102	
2010/11-1	ME-CC	matrix spike, rec	10/22/2010	Organic	2-Chlorophenol	n/a	=	70	%	EPA 8270Cm	-88	-88	47	102	
2010/11-1	ME-CC	matrix spike, RPD	10/22/2010	Organic	2-Chlorophenol	n/a	=	4	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/22/2010	Organic	2-Chlorophenol	n/a	=	3.7	µg/L	EPA 8270Cm	0.65	1			
2010/11-1	MO-OXN	matrix spike dup	10/22/2010	Organic	2-Chlorophenol	n/a	=	3.6	µg/L	EPA 8270Cm	0.65	1			
2010/11-1	MO-OXN	matrix spike dup, rec	10/22/2010	Organic	2-Chlorophenol	n/a	=	72	%	EPA 8270Cm	-88	-88	47	102	
2010/11-1	MO-OXN	matrix spike, rec	10/22/2010	Organic	2-Chlorophenol	n/a	=	74	%	EPA 8270Cm	-88	-88	47	102	
2010/11-1	MO-OXN	matrix spike, RPD	10/22/2010	Organic	2-Chlorophenol	n/a	=	3	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	43.2	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	44.4	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	86	%	EPA 625	-88	-88	22	130	
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	89	%	EPA 625	-88	-88	22	130	
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	41.6	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	45	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 625	-88	-88	22	130	
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	90	%	EPA 625	-88	-88	22	130	
2010/11-1	Lab	srgt LCS	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	8	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	80	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	Lab	srgt method blank	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	7.53	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	75	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	Lab	srgt LCS	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	8.58	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	86	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	Lab	srgt method blank	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	8.53	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	85	%	EPA 8270Cm	-88	-88	51	139	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-CC	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	6.61	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	48.8	µg/L	EPA 625	-88	-88			D
2010/11-1	ME-CC	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	98	%	EPA 625	-88	-88	22	130	D
2010/11-1	ME-CC	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	66	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	ME-CC	srgt matrix spike	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	7.42	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt matrix spike dup	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	7.65	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt matrix spike dup, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	76	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	ME-CC	srgt matrix spike, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	74	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	ME-SCR	srgt matrix spike	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	38	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	37.6	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	75	%	EPA 625	-88	-88	22	130	
2010/11-1	ME-SCR	srgt matrix spike, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	76	%	EPA 625	-88	-88	22	130	
2010/11-1	ME-SCR	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	33.8	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	6.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	68	%	EPA 625	-88	-88	22	130	
2010/11-1	ME-SCR	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	62	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	ME-VR2	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	8.3	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-VR2	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	44.9	µg/L	EPA 625	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	ME-VR2	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	90	%	EPA 625	-88	-88	22	130	
2010/11-1	MO-CAM	srgt environ	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	45.2	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-CAM	srgt environ, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	90	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-CAM	srgt environ	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	8.05	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	80	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-FIL	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	39.9	µg/L	EPA 625	-88	-88			
2010/11-1	MO-FIL	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	7.94	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	79	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-FIL	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	80	%	EPA 625	-88	-88	22	130	
2010/11-1	MO-HUE	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	44.1	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-HUE	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	88	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-HUE	srgt environ	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	8.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	81	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-MEI	srgt environ	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	43.3	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MEI	srgt environ, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	87	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-MEI	srgt environ	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	7.41	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	74	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-MPK	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	6.82	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MPK	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	41.7	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MPK	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-MPK	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	68	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-OJA	srgt environ	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	40.8	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OJA	srgt environ, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	82	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-OJA	srgt environ	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	7.67	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	77	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-OXN	srgt environ	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	43.5	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OXN	srgt environ, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	87	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-OXN	srgt environ	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	7.94	µg/L	EPA 8270Cm	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-OXN	srgt environ, rec	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	79	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-OXN	srgt matrix spike	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	8.06	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	8.17	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup, rec	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	82	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-OXN	srgt matrix spike, rec	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	81	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-SIM	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	7.59	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SIM	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	44	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-SIM	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	84	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-SIM	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	76	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-SPA	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	8.12	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SPA	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	46.7	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-SPA	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	89	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-SPA	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	77	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-THO	srgt environ	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	44.5	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-THO	srgt environ, rec	10/20/2010	Organic	2-Fluorobiphenyl	n/a	=	89	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-THO	srgt environ	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	6.28	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	60	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	MO-VEN	srgt environ	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	41.4	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt environ, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-VEN	srgt matrix spike	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	54	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt matrix spike dup	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	51.3	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt matrix spike dup, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	103	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-VEN	srgt matrix spike, rec	10/19/2010	Organic	2-Fluorobiphenyl	n/a	=	108	%	EPA 625	-88	-88	22	130	D
2010/11-1	MO-VEN	srgt environ	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	5.96	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/21/2010	Organic	2-Fluorobiphenyl	n/a	=	57	%	EPA 8270Cm	-88	-88	51	139	
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	2-Fluorophenol	n/a	=	57.7	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	2-Fluorophenol	n/a	=	52.9	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	53	%	EPA 625	-88	-88	6	96	
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	58	%	EPA 625	-88	-88	6	96	
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	2-Fluorophenol	n/a	=	55.1	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	2-Fluorophenol	n/a	=	59.8	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	60	%	EPA 625	-88	-88	6	96	
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	55	%	EPA 625	-88	-88	6	96	
2010/11-1	Lab	srgt LCS	10/22/2010	Organic	2-Fluorophenol	n/a	=	9.27	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS	10/22/2010	Organic	2-Fluorophenol	n/a	=	7.38	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	46	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	Lab	srgt LCS, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	37	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	Lab	srgt method blank	10/22/2010	Organic	2-Fluorophenol	n/a	=	9.76	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt method blank	10/22/2010	Organic	2-Fluorophenol	n/a	=	7.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	36	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	Lab	srgt method blank, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	49	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	ME-CC	srgt environ	10/20/2010	Organic	2-Fluorophenol	n/a	=	48	µg/L	EPA 625	-88	-88			D
2010/11-1	ME-CC	srgt environ, rec	10/20/2010	Organic	2-Fluorophenol	n/a	=	48	%	EPA 625	-88	-88	6	96	D
2010/11-1	ME-CC	srgt environ	10/22/2010	Organic	2-Fluorophenol	n/a	=	6.86	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt environ, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	ME-CC	srgt matrix spike	10/22/2010	Organic	2-Fluorophenol	n/a	=	7.06	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt matrix spike dup	10/22/2010	Organic	2-Fluorophenol	n/a	=	6.78	µg/L	EPA 8270Cm	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-CC	srgt matrix spike dup, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	ME-CC	srgt matrix spike, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	35	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	ME-SCR	srgt matrix spike	10/19/2010	Organic	2-Fluorophenol	n/a	=	46.6	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup	10/19/2010	Organic	2-Fluorophenol	n/a	=	44.2	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	44	%	EPA 625	-88	-88	6	96	
2010/11-1	ME-SCR	srgt matrix spike, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	47	%	EPA 625	-88	-88	6	96	
2010/11-1	ME-SCR	srgt environ	10/20/2010	Organic	2-Fluorophenol	n/a	=	35.4	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/20/2010	Organic	2-Fluorophenol	n/a	=	35	%	EPA 625	-88	-88	6	96	
2010/11-1	ME-SCR	srgt environ	10/22/2010	Organic	2-Fluorophenol	n/a	=	6.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	32	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	ME-VR2	srgt environ	10/20/2010	Organic	2-Fluorophenol	n/a	=	56.5	µg/L	EPA 625	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/20/2010	Organic	2-Fluorophenol	n/a	=	56	%	EPA 625	-88	-88	6	96	
2010/11-1	ME-VR2	srgt environ	10/22/2010	Organic	2-Fluorophenol	n/a	=	6.95	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	35	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-CAM	srgt environ	10/19/2010	Organic	2-Fluorophenol	n/a	=	42.6	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-CAM	srgt environ, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	43	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-CAM	srgt environ	10/22/2010	Organic	2-Fluorophenol	n/a	=	8.68	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	43	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-FIL	srgt environ	10/20/2010	Organic	2-Fluorophenol	n/a	=	52.4	µg/L	EPA 625	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/20/2010	Organic	2-Fluorophenol	n/a	=	52	%	EPA 625	-88	-88	6	96	
2010/11-1	MO-FIL	srgt environ	10/22/2010	Organic	2-Fluorophenol	n/a	=	7.5	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	38	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-HUE	srgt environ	10/20/2010	Organic	2-Fluorophenol	n/a	=	55.2	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-HUE	srgt environ, rec	10/20/2010	Organic	2-Fluorophenol	n/a	=	55	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-HUE	srgt environ	10/23/2010	Organic	2-Fluorophenol	n/a	=	7.23	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/23/2010	Organic	2-Fluorophenol	n/a	=	36	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-MEI	srgt environ	10/19/2010	Organic	2-Fluorophenol	n/a	=	51.2	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MEI	srgt environ, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	51	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-MEI	srgt environ	10/22/2010	Organic	2-Fluorophenol	n/a	=	8.53	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	43	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-MPK	srgt environ	10/20/2010	Organic	2-Fluorophenol	n/a	=	51.1	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MPK	srgt environ, rec	10/20/2010	Organic	2-Fluorophenol	n/a	=	51	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-MPK	srgt environ	10/23/2010	Organic	2-Fluorophenol	n/a	=	6.7	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MPK	srgt environ, rec	10/23/2010	Organic	2-Fluorophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-OJA	srgt environ	10/19/2010	Organic	2-Fluorophenol	n/a	=	48.7	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OJA	srgt environ, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	49	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-OJA	srgt environ	10/22/2010	Organic	2-Fluorophenol	n/a	=	8.82	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	44	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-OXN	srgt environ	10/19/2010	Organic	2-Fluorophenol	n/a	=	40.4	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OXN	srgt environ, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	40	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-OXN	srgt environ	10/22/2010	Organic	2-Fluorophenol	n/a	=	8.82	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt environ, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	44	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-OXN	srgt matrix spike	10/22/2010	Organic	2-Fluorophenol	n/a	=	9.31	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup	10/22/2010	Organic	2-Fluorophenol	n/a	=	9.03	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	45	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-OXN	srgt matrix spike, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	47	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-SIM	srgt environ	10/20/2010	Organic	2-Fluorophenol	n/a	=	49.9	µg/L	EPA 625	-88	-88			D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-SIM	srgt environ, rec	10/20/2010	Organic	2-Fluorophenol	n/a	=	47	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-SIM	srgt environ	10/22/2010	Organic	2-Fluorophenol	n/a	=	7.08	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SIM	srgt environ, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	35	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-SPA	srgt environ	10/20/2010	Organic	2-Fluorophenol	n/a	=	54.7	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-SPA	srgt environ, rec	10/20/2010	Organic	2-Fluorophenol	n/a	=	52	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-SPA	srgt environ	10/22/2010	Organic	2-Fluorophenol	n/a	=	7.7	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	37	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-THO	srgt environ	10/20/2010	Organic	2-Fluorophenol	n/a	=	55.6	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-THO	srgt environ, rec	10/20/2010	Organic	2-Fluorophenol	n/a	=	56	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-THO	srgt environ	10/23/2010	Organic	2-Fluorophenol	n/a	=	6.48	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/23/2010	Organic	2-Fluorophenol	n/a	=	31	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	MO-VEN	srgt environ	10/19/2010	Organic	2-Fluorophenol	n/a	=	47.1	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt environ, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	47	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-VEN	srgt matrix spike	10/19/2010	Organic	2-Fluorophenol	n/a	=	58.2	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt matrix spike dup	10/19/2010	Organic	2-Fluorophenol	n/a	=	54.5	µg/L	EPA 625	-88	30			D
2010/11-1	MO-VEN	srgt matrix spike dup, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	54	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-VEN	srgt matrix spike, rec	10/19/2010	Organic	2-Fluorophenol	n/a	=	58	%	EPA 625	-88	-88	6	96	D
2010/11-1	MO-VEN	srgt environ	10/22/2010	Organic	2-Fluorophenol	n/a	=	6.93	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/22/2010	Organic	2-Fluorophenol	n/a	=	33	%	EPA 8270Cm	-88	-88	24	82	
2010/11-1	Lab	method blank	10/22/2010	Organic	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1			
2010/11-1	Lab	method blank	10/22/2010	Organic	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1			
2010/11-1	Lab	LCS	10/22/2010	Organic	2-Nitrophenol	n/a	=	3.87	µg/L	EPA 8270Cm	0.71	1			
2010/11-1	Lab	LCS	10/22/2010	Organic	2-Nitrophenol	n/a	=	3.78	µg/L	EPA 8270Cm	0.71	1			
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2-Nitrophenol	n/a	=	76	%	EPA 8270Cm	-88	-88	48	197	
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	2-Nitrophenol	n/a	=	77	%	EPA 8270Cm	-88	-88	48	197	
2010/11-1	Lab	method blank	10/22/2010	Organic	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1			
2010/11-1	Lab	method blank	10/22/2010	Organic	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1			
2010/11-1	Lab	LCS	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	35.7	µg/L	EPA 625	0.3	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	37.6	µg/L	EPA 625	0.3	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	71	%	EPA 625	-88	-88	0.1	262	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	75	%	EPA 625	-88	-88	0.1	262	
2010/11-1	Lab	method blank	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	12.4	µg/L	EPA 625	0.3	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	11.2	µg/L	EPA 625	0.3	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	22	%	EPA 625	-88	-88	0.1	262	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	25	%	EPA 625	-88	-88	0.1	262	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	10	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	<	3	µg/L	EPA 625	3	50			D,GB
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	<	0	µg/L	EPA 625	0	50			D,GB
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	0	%	EPA 625	-88	-88	0.1	262	D,GB
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	0	%	EPA 625	-88	-88	0.1	262	D,GB
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	0	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	method blank	10/22/2010	Organic	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			
2010/11-1	Lab	method blank	10/22/2010	Organic	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			
2010/11-1	Lab	LCS	10/22/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	2.79	µg/L	EPA 8270Cm	0.14	1			
2010/11-1	Lab	LCS	10/22/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	2.22	µg/L	EPA 8270Cm	0.14	1			EUM

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	56	%	EPA 8270Cm	-88	-88	56	227	
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	44	%	EPA 8270Cm	-88	-88	56	227	EUM
2010/11-1	Lab	method blank	10/22/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1			
2010/11-1	Lab	method blank	10/22/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1			
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	4.67	µg/L	EPA 8270Cm	0.14	1			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	4.68	µg/L	EPA 8270Cm	0.14	1			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	94	%	EPA 8270Cm	-88	-88	56	227	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	93	%	EPA 8270Cm	-88	-88	56	227	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	0.2	%	EPA 8270Cm	-88	-88	0		
2010/11-1	Lab	srgt LCS	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	10.9	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt LCS dup	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	11.4	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt LCS dup, rec	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	114	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt LCS, rec	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	109	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt matrix spike	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	11.6	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt matrix spike dup	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	11.4	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt matrix spike dup, rec	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	114	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt matrix spike, rec	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	116	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt method blank	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	11.2	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt method blank, rec	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	112	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt LCS	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.3	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt LCS dup	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	10.7	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt LCS dup, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	107	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt LCS, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	113	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	srgt method blank	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.6	µg/L	EPA 524.2	0	0			X
2010/11-1	Lab	srgt method blank, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	116	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	ME-CC	srgt environ	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	11.4	µg/L	EPA 524.2	0	0			X
2010/11-1	ME-CC	srgt environ, rec	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	114	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	ME-SCR	srgt environ	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	11.3	µg/L	EPA 524.2	0	0			X
2010/11-1	ME-SCR	srgt environ, rec	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	113	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	ME-VR2	srgt environ	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	11.3	µg/L	EPA 524.2	0	0			X
2010/11-1	ME-VR2	srgt environ, rec	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	113	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-CAM	srgt environ	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	11.9	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-CAM	srgt environ, rec	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	119	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-FIL	srgt environ	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.6	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-FIL	srgt environ, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	116	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-HUE	srgt environ	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.5	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-HUE	srgt environ, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	115	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-MEI	srgt environ	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.4	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-MEI	srgt environ	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.1	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-MEI	srgt environ, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	111	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-MEI	srgt environ, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	114	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-MPK	srgt environ	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.8	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-MPK	srgt environ, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	118	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-OJA	srgt environ	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	11.6	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-OJA	srgt environ, rec	10/8/2010	Organic	4-Bromofluorobenzene	n/a	=	116	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-OXN	srgt environ	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.3	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-OXN	srgt environ, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	113	%	EPA 524.2	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-SIM	srgt environ	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.2	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-SIM	srgt environ, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	112	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-SPA	srgt environ	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.4	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-SPA	srgt environ, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	114	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-THO	srgt environ	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.4	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-THO	srgt environ, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	114	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	MO-VEN	srgt environ	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	11.2	µg/L	EPA 524.2	0	0			X
2010/11-1	MO-VEN	srgt environ, rec	10/11/2010	Organic	4-Bromofluorobenzene	n/a	=	112	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	LCS	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	41.8	µg/L	EPA 625	0.23	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	42.4	µg/L	EPA 625	0.23	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	84	%	EPA 625	-88	-88	56	127	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	85	%	EPA 625	-88	-88	56	127	
2010/11-1	Lab	method blank	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	35.5	µg/L	EPA 625	0.23	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	34.3	µg/L	EPA 625	0.23	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	69	%	EPA 625	-88	-88	56	127	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	71	%	EPA 625	-88	-88	56	127	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	49.1	µg/L	EPA 625	2.3	30			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	44.8	µg/L	EPA 625	2.3	20			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	90	%	EPA 625	-88	-88	56	127	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	98	%	EPA 625	-88	-88	56	127	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	9	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	4.02	µg/L	EPA 8270Cm	0.37	1			
2010/11-1	Lab	LCS	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	3.99	µg/L	EPA 8270Cm	0.37	1			
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	80	%	EPA 8270Cm	-88	-88	51	112	
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	80	%	EPA 8270Cm	-88	-88	51	112	
2010/11-1	Lab	method blank	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1			
2010/11-1	Lab	method blank	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1			
2010/11-1	ME-CC	matrix spike	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	4.17	µg/L	EPA 8270Cm	0.37	1			
2010/11-1	ME-CC	matrix spike dup	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	3.9	µg/L	EPA 8270Cm	0.37	1			
2010/11-1	ME-CC	matrix spike dup, rec	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	78	%	EPA 8270Cm	-88	-88	39	121	
2010/11-1	ME-CC	matrix spike, rec	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	83	%	EPA 8270Cm	-88	-88	39	121	
2010/11-1	ME-CC	matrix spike, RPD	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	7	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	4.24	µg/L	EPA 8270Cm	0.37	1			
2010/11-1	MO-OXN	matrix spike dup	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	4.21	µg/L	EPA 8270Cm	0.37	1			
2010/11-1	MO-OXN	matrix spike dup, rec	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	84	%	EPA 8270Cm	-88	-88	39	121	
2010/11-1	MO-OXN	matrix spike, rec	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	85	%	EPA 8270Cm	-88	-88	39	121	
2010/11-1	MO-OXN	matrix spike, RPD	10/22/2010	Organic	4-Chloro-3-methylphenol	n/a	=	0.7	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	48	µg/L	EPA 625	0.24	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	49	µg/L	EPA 625	0.24	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	96	%	EPA 625	-88	-88	25	158	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	98	%	EPA 625	-88	-88	25	158	
2010/11-1	Lab	method blank	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	41.3	µg/L	EPA 625	0.24	5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	39.4	µg/L	EPA 625	0.24	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	79	%	EPA 625	-88	-88	25	158	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	83	%	EPA 625	-88	-88	25	158	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	5	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	56.9	µg/L	EPA 625	2.4	50			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	51.9	µg/L	EPA 625	2.4	50			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	104	%	EPA 625	-88	-88	25	158	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	114	%	EPA 625	-88	-88	25	158	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	9	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/22/2010	Organic	4-Nitrophenol	n/a	=	1.68	µg/L	EPA 8270Cm	1	1			
2010/11-1	Lab	LCS	10/22/2010	Organic	4-Nitrophenol	n/a	=	1.89	µg/L	EPA 8270Cm	1	1			
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	4-Nitrophenol	n/a	=	38	%	EPA 8270Cm	-88	-88	15	73	
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	4-Nitrophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	15	73	
2010/11-1	Lab	method blank	10/22/2010	Organic	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-1	Lab	method blank	10/22/2010	Organic	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-1	ME-CC	matrix spike	10/22/2010	Organic	4-Nitrophenol	n/a	=	2.26	µg/L	EPA 8270Cm	1	2			
2010/11-1	ME-CC	matrix spike dup	10/22/2010	Organic	4-Nitrophenol	n/a	=	2.34	µg/L	EPA 8270Cm	1	2			
2010/11-1	ME-CC	matrix spike dup, rec	10/22/2010	Organic	4-Nitrophenol	n/a	=	47	%	EPA 8270Cm	-88	-88	1	65	
2010/11-1	ME-CC	matrix spike, rec	10/22/2010	Organic	4-Nitrophenol	n/a	=	45	%	EPA 8270Cm	-88	-88	1	65	
2010/11-1	ME-CC	matrix spike, RPD	10/22/2010	Organic	4-Nitrophenol	n/a	=	3	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/22/2010	Organic	4-Nitrophenol	n/a	=	3.19	µg/L	EPA 8270Cm	1	2			
2010/11-1	MO-OXN	matrix spike dup	10/22/2010	Organic	4-Nitrophenol	n/a	=	2.91	µg/L	EPA 8270Cm	1	2			
2010/11-1	MO-OXN	matrix spike dup, rec	10/22/2010	Organic	4-Nitrophenol	n/a	=	58	%	EPA 8270Cm	-88	-88	1	65	
2010/11-1	MO-OXN	matrix spike, rec	10/22/2010	Organic	4-Nitrophenol	n/a	=	64	%	EPA 8270Cm	-88	-88	1	65	
2010/11-1	MO-OXN	matrix spike, RPD	10/22/2010	Organic	4-Nitrophenol	n/a	=	9	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/20/2010	Organic	Acenaphthene	n/a	=	4.36	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Acenaphthene	n/a	=	87	%	EPA 8270Cm	-88	-88	47	145	
2010/11-1	Lab	method blank	10/20/2010	Organic	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Acenaphthene	n/a	=	4.54	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Acenaphthene	n/a	=	91	%	EPA 8270Cm	-88	-88	47	145	
2010/11-1	Lab	method blank	10/21/2010	Organic	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Acenaphthene	n/a	=	4.46	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Acenaphthene	n/a	=	4.18	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Acenaphthene	n/a	=	84	%	EPA 8270Cm	-88	-88	47	145	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Acenaphthene	n/a	=	89	%	EPA 8270Cm	-88	-88	47	145	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Acenaphthene	n/a	=	6	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Acenaphthene	n/a	=	4.82	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Acenaphthene	n/a	=	4.66	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Acenaphthene	n/a	=	93	%	EPA 8270Cm	-88	-88	47	145	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Acenaphthene	n/a	=	96	%	EPA 8270Cm	-88	-88	47	145	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Acenaphthene	n/a	=	3	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/20/2010	Organic	Acenaphthylene	n/a	=	4.51	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Acenaphthylene	n/a	=	90	%	EPA 8270Cm	-88	-88	33	145	
2010/11-1	Lab	method blank	10/20/2010	Organic	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Acenaphthylene	n/a	=	4.71	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Acenaphthylene	n/a	=	94	%	EPA 8270Cm	-88	-88	33	145	
2010/11-1	Lab	method blank	10/21/2010	Organic	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Acenaphthylene	n/a	=	4.62	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Acenaphthylene	n/a	=	4.42	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Acenaphthylene	n/a	=	88	%	EPA 8270Cm	-88	-88	33	145	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Acenaphthylene	n/a	=	92	%	EPA 8270Cm	-88	-88	33	145	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Acenaphthylene	n/a	=	4	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Acenaphthylene	n/a	=	4.48	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Acenaphthylene	n/a	=	4.53	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Acenaphthylene	n/a	=	91	%	EPA 8270Cm	-88	-88	33	145	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Acenaphthylene	n/a	=	90	%	EPA 8270Cm	-88	-88	33	145	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Acenaphthylene	n/a	=	1	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/20/2010	Organic	Anthracene	n/a	=	4.57	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Anthracene	n/a	=	91	%	EPA 8270Cm	-88	-88	27	133	
2010/11-1	Lab	method blank	10/20/2010	Organic	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Anthracene	n/a	=	4.88	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Anthracene	n/a	=	98	%	EPA 8270Cm	-88	-88	27	133	
2010/11-1	Lab	method blank	10/21/2010	Organic	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Anthracene	n/a	=	3.82	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Anthracene	n/a	=	3.65	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Anthracene	n/a	=	73	%	EPA 8270Cm	-88	-88	27	133	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Anthracene	n/a	=	76	%	EPA 8270Cm	-88	-88	27	133	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Anthracene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Anthracene	n/a	=	4.38	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Anthracene	n/a	=	4.45	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Anthracene	n/a	=	89	%	EPA 8270Cm	-88	-88	27	133	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Anthracene	n/a	=	88	%	EPA 8270Cm	-88	-88	27	133	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Anthracene	n/a	=	2	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/20/2010	Organic	Benz(a)anthracene	n/a	=	7.22	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Benz(a)anthracene	n/a	=	144	%	EPA 8270Cm	-88	-88	33	143	EUM
2010/11-1	Lab	method blank	10/20/2010	Organic	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Benz(a)anthracene	n/a	=	7.39	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Benz(a)anthracene	n/a	=	148	%	EPA 8270Cm	-88	-88	33	143	EUM
2010/11-1	Lab	method blank	10/21/2010	Organic	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Benz(a)anthracene	n/a	=	7.02	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Benz(a)anthracene	n/a	=	6.71	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Benz(a)anthracene	n/a	=	134	%	EPA 8270Cm	-88	-88	33	143	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Benz(a)anthracene	n/a	=	140	%	EPA 8270Cm	-88	-88	33	143	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Benz(a)anthracene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Benz(a)anthracene	n/a	=	7.01	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Benz(a)anthracene	n/a	=	6.96	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Benz(a)anthracene	n/a	=	133	%	EPA 8270Cm	-88	-88	33	143	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Benz(a)anthracene	n/a	=	134	%	EPA 8270Cm	-88	-88	33	143	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Benz(a)anthracene	n/a	=	0.7	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	method blank	10/19/2010	Organic	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5			
2010/11-1	Lab	LCS	10/25/2010	Organic	Benzo(a)pyrene	n/a	=	8.72	µg/L	EPA 525.2	0.073	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Organic	Benzo(a)pyrene	n/a	=	174	%	EPA 525.2	-88	-88	54	136	EUM
2010/11-1	Lab	method blank	10/25/2010	Organic	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS	10/26/2010	Organic	Benzo(a)pyrene	n/a	=	6.56	µg/L	EPA 525.2	0.073	0.1			
2010/11-1	Lab	LCS, rec	10/26/2010	Organic	Benzo(a)pyrene	n/a	=	131	%	EPA 525.2	-88	-88	54	136	
2010/11-1	Lab	method blank	10/26/2010	Organic	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Organic	Benzo(a)pyrene	n/a	=	6.8	µg/L	EPA 525.2	0.073	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Organic	Benzo(a)pyrene	n/a	=	3.19	µg/L	EPA 525.2	0.073	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Organic	Benzo(a)pyrene	n/a	=	64	%	EPA 525.2	-88	-88	29	153	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Organic	Benzo(a)pyrene	n/a	=	136	%	EPA 525.2	-88	-88	29	153	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Organic	Benzo(a)pyrene	n/a	=	72	%	EPA 525.2	-88	-88	0	30	IL
2010/11-1	MO-OJA	matrix spike	10/25/2010	Organic	Benzo(a)pyrene	n/a	=	0.42	µg/L	EPA 525.2	0.073	0.1			GB
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Organic	Benzo(a)pyrene	n/a	=	8	%	EPA 525.2	-88	-88	29	153	GB
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Organic	Benzo(a)pyrene	n/a	=	1.42	µg/L	EPA 525.2	0.073	0.1			GB
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Organic	Benzo(a)pyrene	n/a	=	28	%	EPA 525.2	-88	-88	29	153	GB
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Organic	Benzo(a)pyrene	n/a	=	109	%	EPA 525.2	-88	-88	0	30	IL
2010/11-1	Lab	LCS	10/20/2010	Organic	Benzo(b)fluoranthene	n/a	=	3.87	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Benzo(b)fluoranthene	n/a	=	77	%	EPA 8270Cm	-88	-88	24	159	
2010/11-1	Lab	method blank	10/20/2010	Organic	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Benzo(b)fluoranthene	n/a	=	3.98	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Benzo(b)fluoranthene	n/a	=	80	%	EPA 8270Cm	-88	-88	24	159	
2010/11-1	Lab	method blank	10/21/2010	Organic	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Benzo(b)fluoranthene	n/a	=	3.84	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Benzo(b)fluoranthene	n/a	=	3.58	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Benzo(b)fluoranthene	n/a	=	72	%	EPA 8270Cm	-88	-88	24	159	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Benzo(b)fluoranthene	n/a	=	77	%	EPA 8270Cm	-88	-88	24	159	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Benzo(b)fluoranthene	n/a	=	7	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Benzo(b)fluoranthene	n/a	=	3.79	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Benzo(b)fluoranthene	n/a	=	3.72	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Benzo(b)fluoranthene	n/a	=	71	%	EPA 8270Cm	-88	-88	24	159	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Benzo(b)fluoranthene	n/a	=	72	%	EPA 8270Cm	-88	-88	24	159	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Benzo(b)fluoranthene	n/a	=	2	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/20/2010	Organic	Benzo(g,h,i)perylene	n/a	=	4.07	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Benzo(g,h,i)perylene	n/a	=	81	%	EPA 8270Cm	-88	-88	0.1	219	
2010/11-1	Lab	method blank	10/20/2010	Organic	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Benzo(g,h,i)perylene	n/a	=	4.18	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Benzo(g,h,i)perylene	n/a	=	84	%	EPA 8270Cm	-88	-88	0.1	219	
2010/11-1	Lab	method blank	10/21/2010	Organic	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Benzo(g,h,i)perylene	n/a	=	4.22	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Benzo(g,h,i)perylene	n/a	=	3.98	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Benzo(g,h,i)perylene	n/a	=	80	%	EPA 8270Cm	-88	-88	0.1	219	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Benzo(g,h,i)perylene	n/a	=	84	%	EPA 8270Cm	-88	-88	0.1	219	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Benzo(g,h,i)perylene	n/a	=	6	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Benzo(g,h,i)perylene	n/a	=	4.18	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Benzo(g,h,i)perylene	n/a	=	4.14	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Benzo(g,h,i)perylene	n/a	=	80	%	EPA 8270Cm	-88	-88	0.1	219	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Benzo(g,h,i)perylene	n/a	=	80	%	EPA 8270Cm	-88	-88	0.1	219	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Benzo(g,h,i)perylene	n/a	=	1	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/20/2010	Organic	Benzo(k)fluoranthene	n/a	=	3.56	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Benzo(k)fluoranthene	n/a	=	71	%	EPA 8270Cm	-88	-88	11	162	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	method blank	10/20/2010	Organic	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Benzo(k)fluoranthene	n/a	=	3.84	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Benzo(k)fluoranthene	n/a	=	77	%	EPA 8270Cm	-88	-88	11	162	
2010/11-1	Lab	method blank	10/21/2010	Organic	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Benzo(k)fluoranthene	n/a	=	3.59	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Benzo(k)fluoranthene	n/a	=	3.38	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Benzo(k)fluoranthene	n/a	=	68	%	EPA 8270Cm	-88	-88	11	162	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Benzo(k)fluoranthene	n/a	=	72	%	EPA 8270Cm	-88	-88	11	162	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Benzo(k)fluoranthene	n/a	=	6	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Benzo(k)fluoranthene	n/a	=	3.25	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Benzo(k)fluoranthene	n/a	=	3.39	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Benzo(k)fluoranthene	n/a	=	64	%	EPA 8270Cm	-88	-88	11	162	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Benzo(k)fluoranthene	n/a	=	61	%	EPA 8270Cm	-88	-88	11	162	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Benzo(k)fluoranthene	n/a	=	4	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	44	µg/L	EPA 625	0.4	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	46	µg/L	EPA 625	0.4	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	88	%	EPA 625	-88	-88	33	184	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	92	%	EPA 625	-88	-88	33	184	
2010/11-1	Lab	method blank	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	40	µg/L	EPA 625	0.4	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	40.1	µg/L	EPA 625	0.4	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	80	%	EPA 625	-88	-88	33	184	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	80	%	EPA 625	-88	-88	33	184	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	0.1	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	55.8	µg/L	EPA 625	4	50			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	54	µg/L	EPA 625	4	50			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	108	%	EPA 625	-88	-88	33	184	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	112	%	EPA 625	-88	-88	33	184	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	3	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	41.5	µg/L	EPA 625	0.46	1			
2010/11-1	Lab	LCS	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	42.3	µg/L	EPA 625	0.46	1			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	85	%	EPA 625	-88	-88	12	158	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	83	%	EPA 625	-88	-88	12	158	
2010/11-1	Lab	method blank	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1			
2010/11-1	Lab	method blank	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	37.9	µg/L	EPA 625	0.46	1			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	38.3	µg/L	EPA 625	0.46	1			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	77	%	EPA 625	-88	-88	12	158	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	76	%	EPA 625	-88	-88	12	158	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	0.9	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	51.1	µg/L	EPA 625	4.6	10			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	48.4	µg/L	EPA 625	4.6	10			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	97	%	EPA 625	-88	-88	12	158	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	102	%	EPA 625	-88	-88	12	158	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	5	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	45	µg/L	EPA 625	0.48	2			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	43	µg/L	EPA 625	0.48	2			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	86	%	EPA 625	-88	-88	36	166	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	90	%	EPA 625	-88	-88	36	166	
2010/11-1	Lab	method blank	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2			
2010/11-1	Lab	method blank	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	38.4	µg/L	EPA 625	0.48	2			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	39.7	µg/L	EPA 625	0.48	2			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	79	%	EPA 625	-88	-88	36	166	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	77	%	EPA 625	-88	-88	36	166	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	55.1	µg/L	EPA 625	4.8	20			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	53.3	µg/L	EPA 625	4.8	20			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	107	%	EPA 625	-88	-88	36	166	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	110	%	EPA 625	-88	-88	36	166	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	3	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/25/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	4.03	µg/L	EPA 525.2	0.23	5			
2010/11-1	Lab	LCS, rec	10/25/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	81	%	EPA 525.2	-88	-88	50	145	
2010/11-1	Lab	method blank	10/25/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5			
2010/11-1	Lab	LCS	10/26/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	4.35	µg/L	EPA 525.2	0.23	5			
2010/11-1	Lab	LCS, rec	10/26/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	87	%	EPA 525.2	-88	-88	50	145	
2010/11-1	Lab	method blank	10/26/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	4.54	µg/L	EPA 525.2	0.23	5			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	2.3	µg/L	EPA 525.2	0.23	5			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	46	%	EPA 525.2	-88	-88	28	147	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	91	%	EPA 525.2	-88	-88	28	147	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	65	%	EPA 525.2	-88	-88	0	30	IL
2010/11-1	MO-OJA	matrix spike	10/25/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	0.46	µg/L	EPA 525.2	0	5			GB
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	9	%	EPA 525.2	-88	-88	28	147	GB
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	1.3	µg/L	EPA 525.2	0.23	5			GB
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	26	%	EPA 525.2	-88	-88	28	147	GB
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	95	%	EPA 525.2	-88	-88	0	30	IL
2010/11-1	Lab	LCS	10/25/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	4.22	µg/L	EPA 525.2	1.1	3			
2010/11-1	Lab	LCS, rec	10/25/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	84	%	EPA 525.2	-88	-88	54	142	
2010/11-1	Lab	method blank	10/25/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3			
2010/11-1	Lab	LCS	10/26/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	4.37	µg/L	EPA 525.2	1.1	3			
2010/11-1	Lab	LCS, rec	10/26/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	87	%	EPA 525.2	-88	-88	54	142	
2010/11-1	Lab	method blank	10/26/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	5.02	µg/L	EPA 525.2	1.1	3			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.74	µg/L	EPA 525.2	1.1	3			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	55	%	EPA 525.2	-88	-88	23	154	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	100	%	EPA 525.2	-88	-88	23	154	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	59	%	EPA 525.2	-88	-88	0	30	IL
2010/11-1	MO-OJA	matrix spike	10/25/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	DNQ	0.72	µg/L	EPA 525.2	0	3			GB
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	14	%	EPA 525.2	-88	-88	23	154	GB
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.73	µg/L	EPA 525.2	1.1	3			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	35	%	EPA 525.2	-88	-88	23	154	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	200	%	EPA 525.2	-88	-88	0	30	IL

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	51.2	µg/L	EPA 625	1	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	46.1	µg/L	EPA 625	1	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	92	%	EPA 625	-88	-88	0.1	152	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	102	%	EPA 625	-88	-88	0.1	152	
2010/11-1	Lab	method blank	10/19/2010	Organic	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	43.6	µg/L	EPA 625	1	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	43.6	µg/L	EPA 625	1	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	87	%	EPA 625	-88	-88	0.1	152	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	87	%	EPA 625	-88	-88	0.1	152	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	0.2	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	58.3	µg/L	EPA 625	10	50			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	60.2	µg/L	EPA 625	10	50			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	120	%	EPA 625	-88	-88	0.1	152	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	117	%	EPA 625	-88	-88	0.1	152	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Butyl benzyl phthalate	n/a	=	3	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/20/2010	Organic	Chrysene	n/a	=	3.27	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Chrysene	n/a	=	65	%	EPA 8270Cm	-88	-88	17	168	
2010/11-1	Lab	method blank	10/20/2010	Organic	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Chrysene	n/a	=	3.36	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Chrysene	n/a	=	67	%	EPA 8270Cm	-88	-88	17	168	
2010/11-1	Lab	method blank	10/21/2010	Organic	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Chrysene	n/a	=	3.19	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Chrysene	n/a	=	2.97	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Chrysene	n/a	=	59	%	EPA 8270Cm	-88	-88	17	168	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Chrysene	n/a	=	64	%	EPA 8270Cm	-88	-88	17	168	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Chrysene	n/a	=	7	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Chrysene	n/a	=	3.08	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Chrysene	n/a	=	3.07	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Chrysene	n/a	=	58	%	EPA 8270Cm	-88	-88	17	168	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Chrysene	n/a	=	58	%	EPA 8270Cm	-88	-88	17	168	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Chrysene	n/a	=	0.3	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/20/2010	Organic	Dibenz(a,h)anthracene	n/a	=	4.23	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Dibenz(a,h)anthracene	n/a	=	85	%	EPA 8270Cm	-88	-88	0.1	227	
2010/11-1	Lab	method blank	10/20/2010	Organic	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Dibenz(a,h)anthracene	n/a	=	4.33	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Dibenz(a,h)anthracene	n/a	=	87	%	EPA 8270Cm	-88	-88	0.1	227	
2010/11-1	Lab	method blank	10/21/2010	Organic	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Dibenz(a,h)anthracene	n/a	=	4.37	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Dibenz(a,h)anthracene	n/a	=	4.14	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Dibenz(a,h)anthracene	n/a	=	83	%	EPA 8270Cm	-88	-88	0.1	227	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Dibenz(a,h)anthracene	n/a	=	87	%	EPA 8270Cm	-88	-88	0.1	227	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Dibenz(a,h)anthracene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Dibenz(a,h)anthracene	n/a	=	4.14	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Dibenz(a,h)anthracene	n/a	=	4.23	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Dibenz(a,h)anthracene	n/a	=	85	%	EPA 8270Cm	-88	-88	0.1	227	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Dibenz(a,h)anthracene	n/a	=	83	%	EPA 8270Cm	-88	-88	0.1	227	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Dibenz(a,h)anthracene	n/a	=	2	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/19/2010	Organic	Diethyl phthalate	n/a	=	48	µg/L	EPA 625	0.23	2			
2010/11-1	Lab	LCS	10/19/2010	Organic	Diethyl phthalate	n/a	=	48	µg/L	EPA 625	0.23	2			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Diethyl phthalate	n/a	=	96	%	EPA 625	-88	-88	0.1	112	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Diethyl phthalate	n/a	=	96	%	EPA 625	-88	-88	0.1	112	
2010/11-1	Lab	method blank	10/19/2010	Organic	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2			
2010/11-1	Lab	method blank	10/19/2010	Organic	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Diethyl phthalate	n/a	=	41.8	µg/L	EPA 625	0.23	2			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Diethyl phthalate	n/a	=	40.2	µg/L	EPA 625	0.23	2			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Diethyl phthalate	n/a	=	80	%	EPA 625	-88	-88	0.1	112	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Diethyl phthalate	n/a	=	83	%	EPA 625	-88	-88	0.1	112	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Diethyl phthalate	n/a	=	4	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Diethyl phthalate	n/a	=	57.9	µg/L	EPA 625	2.3	20			D,GB
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Diethyl phthalate	n/a	=	52.4	µg/L	EPA 625	2.3	20			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Diethyl phthalate	n/a	=	105	%	EPA 625	-88	-88	0.1	112	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Diethyl phthalate	n/a	=	116	%	EPA 625	-88	-88	0.1	112	D,GB
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Diethyl phthalate	n/a	=	10	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	Dimethyl phthalate	n/a	=	40.9	µg/L	EPA 625	0.26	2			
2010/11-1	Lab	LCS	10/19/2010	Organic	Dimethyl phthalate	n/a	=	40	µg/L	EPA 625	0.26	2			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Dimethyl phthalate	n/a	=	82	%	EPA 625	-88	-88	0.1	112	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Dimethyl phthalate	n/a	=	80	%	EPA 625	-88	-88	0.1	112	
2010/11-1	Lab	method blank	10/19/2010	Organic	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2			
2010/11-1	Lab	method blank	10/19/2010	Organic	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Dimethyl phthalate	n/a	=	36.2	µg/L	EPA 625	0.26	2			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Dimethyl phthalate	n/a	=	35.9	µg/L	EPA 625	0.26	2			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Dimethyl phthalate	n/a	=	72	%	EPA 625	-88	-88	0.1	112	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Dimethyl phthalate	n/a	=	72	%	EPA 625	-88	-88	0.1	112	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Dimethyl phthalate	n/a	=	0.8	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Dimethyl phthalate	n/a	=	55.3	µg/L	EPA 625	2.6	20			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Dimethyl phthalate	n/a	=	53	µg/L	EPA 625	2.6	20			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Dimethyl phthalate	n/a	=	106	%	EPA 625	-88	-88	0.1	112	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Dimethyl phthalate	n/a	=	111	%	EPA 625	-88	-88	0.1	112	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Dimethyl phthalate	n/a	=	4	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	44.5	µg/L	EPA 625	0.53	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	48.9	µg/L	EPA 625	0.53	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	89	%	EPA 625	-88	-88	1	118	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	98	%	EPA 625	-88	-88	1	118	
2010/11-1	Lab	method blank	10/19/2010	Organic	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	42.4	µg/L	EPA 625	0.53	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	42.8	µg/L	EPA 625	0.53	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	86	%	EPA 625	-88	-88	1	118	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	85	%	EPA 625	-88	-88	1	118	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	1	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	56.1	µg/L	EPA 625	5.3	50			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	57	µg/L	EPA 625	5.3	50			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	114	%	EPA 625	-88	-88	1	118	D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	112	%	EPA 625	-88	-88	1	118	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Di-n-butylphthalate	n/a	=	2	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	44.8	µg/L	EPA 625	0.28	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	48.4	µg/L	EPA 625	0.28	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	97	%	EPA 625	-88	-88	6	146	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	90	%	EPA 625	-88	-88	6	146	
2010/11-1	Lab	method blank	10/19/2010	Organic	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	38.5	µg/L	EPA 625	0.28	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	38.9	µg/L	EPA 625	0.28	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	78	%	EPA 625	-88	-88	6	146	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	77	%	EPA 625	-88	-88	6	146	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	1	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	55.7	µg/L	EPA 625	2.8	30			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	53.8	µg/L	EPA 625	2.8	50			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	108	%	EPA 625	-88	-88	6	146	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	111	%	EPA 625	-88	-88	6	146	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Di-n-octylphthalate	n/a	=	3	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/20/2010	Organic	Fluoranthene	n/a	=	5.82	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Fluoranthene	n/a	=	116	%	EPA 8270Cm	-88	-88	26	137	
2010/11-1	Lab	method blank	10/20/2010	Organic	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Fluoranthene	n/a	=	6.03	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Fluoranthene	n/a	=	121	%	EPA 8270Cm	-88	-88	26	137	
2010/11-1	Lab	method blank	10/21/2010	Organic	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Fluoranthene	n/a	=	5.65	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Fluoranthene	n/a	=	5.26	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Fluoranthene	n/a	=	105	%	EPA 8270Cm	-88	-88	26	137	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Fluoranthene	n/a	=	113	%	EPA 8270Cm	-88	-88	26	137	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Fluoranthene	n/a	=	7	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Fluoranthene	n/a	=	5.71	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Fluoranthene	n/a	=	5.65	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Fluoranthene	n/a	=	107	%	EPA 8270Cm	-88	-88	26	137	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Fluoranthene	n/a	=	108	%	EPA 8270Cm	-88	-88	26	137	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Fluoranthene	n/a	=	1	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/20/2010	Organic	Fluorene	n/a	=	5.27	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Fluorene	n/a	=	105	%	EPA 8270Cm	-88	-88	59	121	
2010/11-1	Lab	method blank	10/20/2010	Organic	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Fluorene	n/a	=	5.34	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Fluorene	n/a	=	107	%	EPA 8270Cm	-88	-88	59	121	
2010/11-1	Lab	method blank	10/21/2010	Organic	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Fluorene	n/a	=	5.37	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Fluorene	n/a	=	5.12	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Fluorene	n/a	=	102	%	EPA 8270Cm	-88	-88	59	121	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Fluorene	n/a	=	107	%	EPA 8270Cm	-88	-88	59	121	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Fluorene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Fluorene	n/a	=	5.09	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Fluorene	n/a	=	5.11	µg/L	EPA 8270Cm	0.15	0.5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Fluorene	n/a	=	102	%	EPA 8270Cm	-88	-88	59	121	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Fluorene	n/a	=	102	%	EPA 8270Cm	-88	-88	59	121	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Fluorene	n/a	=	0.4	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/19/2010	Organic	Hexachlorobenzene	n/a	=	50.1	µg/L	EPA 625	0.15	1			
2010/11-1	Lab	LCS	10/19/2010	Organic	Hexachlorobenzene	n/a	=	49.9	µg/L	EPA 625	0.15	1			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Hexachlorobenzene	n/a	=	100	%	EPA 625	-88	-88	0.1	152	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Hexachlorobenzene	n/a	=	100	%	EPA 625	-88	-88	0.1	152	
2010/11-1	Lab	method blank	10/19/2010	Organic	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1			
2010/11-1	Lab	method blank	10/19/2010	Organic	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Hexachlorobenzene	n/a	=	42.5	µg/L	EPA 625	0.15	1			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Hexachlorobenzene	n/a	=	41.3	µg/L	EPA 625	0.15	1			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Hexachlorobenzene	n/a	=	83	%	EPA 625	-88	-88	0.1	152	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Hexachlorobenzene	n/a	=	85	%	EPA 625	-88	-88	0.1	152	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Hexachlorobenzene	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Hexachlorobenzene	n/a	=	59.1	µg/L	EPA 625	1.5	10			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Hexachlorobenzene	n/a	=	55.1	µg/L	EPA 625	1.5	10			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Hexachlorobenzene	n/a	=	110	%	EPA 625	-88	-88	0.1	152	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Hexachlorobenzene	n/a	=	118	%	EPA 625	-88	-88	0.1	152	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Hexachlorobenzene	n/a	=	7	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	43	µg/L	EPA 625	0.41	1			
2010/11-1	Lab	LCS	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	42.4	µg/L	EPA 625	0.41	1			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	86	%	EPA 625	-88	-88	24	116	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	85	%	EPA 625	-88	-88	24	116	
2010/11-1	Lab	method blank	10/19/2010	Organic	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1			
2010/11-1	Lab	method blank	10/19/2010	Organic	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	38.8	µg/L	EPA 625	0.41	1			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	38.6	µg/L	EPA 625	0.41	1			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	77	%	EPA 625	-88	-88	24	116	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	78	%	EPA 625	-88	-88	24	116	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	0.6	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	57.3	µg/L	EPA 625	4.1	10			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	53	µg/L	EPA 625	4.1	10			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	106	%	EPA 625	-88	-88	24	116	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	115	%	EPA 625	-88	-88	24	116	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Hexachlorobutadiene	n/a	=	8	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	42.8	µg/L	EPA 625	5	10			
2010/11-1	Lab	LCS	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	21.4	µg/L	EPA 625	5	10			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	86	%	EPA 625	-88	-88	0.1	136	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	43	%	EPA 625	-88	-88	0.1	136	
2010/11-1	Lab	method blank	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10			
2010/11-1	Lab	method blank	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	30.1	µg/L	EPA 625	5	10			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	26.1	µg/L	EPA 625	5	10			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	52	%	EPA 625	-88	-88	0.1	146	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	60	%	EPA 625	-88	-88	0.1	146	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	14	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	43	µg/L	EPA 625	0	40			D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	34.9	µg/L	EPA 625	0	30			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	70	%	EPA 625	-88	-88	0.1	146	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	86	%	EPA 625	-88	-88	0.1	146	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Hexachlorocyclopentadiene	n/a	=	21	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	Hexachloroethane	n/a	=	46	µg/L	EPA 625	0.36	1			
2010/11-1	Lab	LCS	10/19/2010	Organic	Hexachloroethane	n/a	=	44.5	µg/L	EPA 625	0.36	1			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Hexachloroethane	n/a	=	89	%	EPA 625	-88	-88	40	113	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Hexachloroethane	n/a	=	92	%	EPA 625	-88	-88	40	113	
2010/11-1	Lab	method blank	10/19/2010	Organic	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-1	Lab	method blank	10/19/2010	Organic	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Hexachloroethane	n/a	=	40.4	µg/L	EPA 625	0.36	1			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Hexachloroethane	n/a	=	40	µg/L	EPA 625	0.36	1			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Hexachloroethane	n/a	=	80	%	EPA 625	-88	-88	40	113	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Hexachloroethane	n/a	=	81	%	EPA 625	-88	-88	40	113	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Hexachloroethane	n/a	=	1	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Hexachloroethane	n/a	=	52.7	µg/L	EPA 625	3.6	10			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Hexachloroethane	n/a	=	47.3	µg/L	EPA 625	3.6	10			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Hexachloroethane	n/a	=	95	%	EPA 625	-88	-88	40	113	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Hexachloroethane	n/a	=	105	%	EPA 625	-88	-88	40	113	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Hexachloroethane	n/a	=	11	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/20/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	4.43	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	89	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-1	Lab	method blank	10/20/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	4.48	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	90	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-1	Lab	method blank	10/21/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	4.6	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	4.34	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	87	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	92	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	6	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	4.6	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	4.62	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	92	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	92	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	0.4	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/19/2010	Organic	Isophorone	n/a	=	41.1	µg/L	EPA 625	0.33	1			
2010/11-1	Lab	LCS	10/19/2010	Organic	Isophorone	n/a	=	42.3	µg/L	EPA 625	0.33	1			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Isophorone	n/a	=	85	%	EPA 625	-88	-88	21	196	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Isophorone	n/a	=	82	%	EPA 625	-88	-88	21	196	
2010/11-1	Lab	method blank	10/19/2010	Organic	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1			
2010/11-1	Lab	method blank	10/19/2010	Organic	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Isophorone	n/a	=	37.6	µg/L	EPA 625	0.33	1			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Isophorone	n/a	=	38	µg/L	EPA 625	0.33	1			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Isophorone	n/a	=	76	%	EPA 625	-88	-88	21	196	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Isophorone	n/a	=	75	%	EPA 625	-88	-88	21	196	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Isophorone	n/a	=	0.9	%	EPA 625	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Isophorone	n/a	=	52.5	µg/L	EPA 625	3.3	10			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Isophorone	n/a	=	50.9	µg/L	EPA 625	3.3	10			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Isophorone	n/a	=	102	%	EPA 625	-88	-88	21	196	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Isophorone	n/a	=	105	%	EPA 625	-88	-88	21	196	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Isophorone	n/a	=	3	%	EPA 625	-88	-88	0	30	D
2010/11-1	000NONPJ	matrix spike	10/8/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	5.32	µg/L	EPA 524.2	1.1	3			X
2010/11-1	000NONPJ	matrix spike dup	10/8/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	5.63	µg/L	EPA 524.2	1.1	3			X
2010/11-1	000NONPJ	matrix spike dup, rec	10/8/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	94	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	000NONPJ	matrix spike, rec	10/8/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	89	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	000NONPJ	matrix spike, RPD	10/8/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	6	%	EPA 524.2	-88	-88	0	30	X
2010/11-1	Lab	LCS	10/8/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	5.61	µg/L	EPA 524.2	1.1	3			X
2010/11-1	Lab	LCS dup	10/8/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	5.72	µg/L	EPA 524.2	1.1	3			X
2010/11-1	Lab	LCS dup, rec	10/8/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	95	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	LCS, rec	10/8/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	94	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	LCS, RPD	10/8/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	2	%	EPA 524.2	-88	-88	0	30	X
2010/11-1	Lab	method blank	10/8/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3			X
2010/11-1	Lab	LCS	10/11/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	5.08	µg/L	EPA 524.2	1.1	3			X
2010/11-1	Lab	LCS dup	10/11/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	5.01	µg/L	EPA 524.2	1.1	3			X
2010/11-1	Lab	LCS dup, rec	10/11/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	84	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	LCS, rec	10/11/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	85	%	EPA 524.2	-88	-88	70	130	X
2010/11-1	Lab	LCS, RPD	10/11/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	1	%	EPA 524.2	-88	-88	0	30	X
2010/11-1	Lab	method blank	10/11/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3			X
2010/11-1	MO-MEI	field duplicate	10/11/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3			X
2010/11-1	Lab	LCS	10/20/2010	Organic	Naphthalene	n/a	=	4.17	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Naphthalene	n/a	=	83	%	EPA 8270Cm	-88	-88	21	133	
2010/11-1	Lab	method blank	10/20/2010	Organic	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Naphthalene	n/a	=	4.34	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Naphthalene	n/a	=	87	%	EPA 8270Cm	-88	-88	21	133	
2010/11-1	Lab	method blank	10/21/2010	Organic	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Naphthalene	n/a	=	4.44	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Naphthalene	n/a	=	4.21	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Naphthalene	n/a	=	84	%	EPA 8270Cm	-88	-88	21	133	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Naphthalene	n/a	=	89	%	EPA 8270Cm	-88	-88	21	133	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Naphthalene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Naphthalene	n/a	=	4.3	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Naphthalene	n/a	=	4.27	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Naphthalene	n/a	=	85	%	EPA 8270Cm	-88	-88	21	133	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Naphthalene	n/a	=	86	%	EPA 8270Cm	-88	-88	21	133	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Naphthalene	n/a	=	0.7	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/19/2010	Organic	Nitrobenzene	n/a	=	43.8	µg/L	EPA 625	0.37	1			
2010/11-1	Lab	LCS	10/19/2010	Organic	Nitrobenzene	n/a	=	42	µg/L	EPA 625	0.37	1			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Nitrobenzene	n/a	=	84	%	EPA 625	-88	-88	35	180	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	Nitrobenzene	n/a	=	88	%	EPA 625	-88	-88	35	180	
2010/11-1	Lab	method blank	10/19/2010	Organic	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1			
2010/11-1	Lab	method blank	10/19/2010	Organic	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	Nitrobenzene	n/a	=	38.4	µg/L	EPA 625	0.37	1			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	Nitrobenzene	n/a	=	38.3	µg/L	EPA 625	0.37	1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	Nitrobenzene	n/a	=	77	%	EPA 625	-88	-88	35	180	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	Nitrobenzene	n/a	=	77	%	EPA 625	-88	-88	35	180	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	Nitrobenzene	n/a	=	0.4	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	Nitrobenzene	n/a	=	53.5	µg/L	EPA 625	3.7	10			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	Nitrobenzene	n/a	=	50.3	µg/L	EPA 625	3.7	10			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	Nitrobenzene	n/a	=	101	%	EPA 625	-88	-88	35	180	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	Nitrobenzene	n/a	=	107	%	EPA 625	-88	-88	35	180	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	Nitrobenzene	n/a	=	6	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	46.4	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	44.2	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	88	%	EPA 625	-88	-88	34	139	
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	93	%	EPA 625	-88	-88	34	139	
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	49.4	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	44.4	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	99	%	EPA 625	-88	-88	34	139	
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	89	%	EPA 625	-88	-88	34	139	
2010/11-1	Lab	srgt LCS	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	9.53	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	95	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	Lab	srgt method blank	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	9.16	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	92	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	Lab	srgt LCS	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	9.78	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	98	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	Lab	srgt method blank	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	10.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	101	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	ME-CC	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	50.2	µg/L	EPA 625	-88	-88			D
2010/11-1	ME-CC	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	8.77	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	100	%	EPA 625	-88	-88	34	139	D
2010/11-1	ME-CC	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	88	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	ME-CC	srgt matrix spike	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	9.57	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt matrix spike dup	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	9.18	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt matrix spike dup, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	92	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	ME-CC	srgt matrix spike, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	96	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	ME-SCR	srgt matrix spike	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	40.5	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	40.2	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	80	%	EPA 625	-88	-88	34	139	
2010/11-1	ME-SCR	srgt matrix spike, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	81	%	EPA 625	-88	-88	34	139	
2010/11-1	ME-SCR	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	36.9	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	7.64	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	76	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	ME-SCR	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	74	%	EPA 625	-88	-88	34	139	
2010/11-1	ME-VR2	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	47.7	µg/L	EPA 625	-88	-88			
2010/11-1	ME-VR2	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	9.87	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	95	%	EPA 625	-88	-88	34	139	
2010/11-1	ME-VR2	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	99	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-CAM	srgt environ	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	44.5	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-CAM	srgt environ, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	89	%	EPA 625	-88	-88	34	139	D
2010/11-1	MO-CAM	srgt environ	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	9.49	µg/L	EPA 8270Cm	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-CAM	srgt environ, rec	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	95	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-FIL	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	41.8	µg/L	EPA 625	-88	-88			
2010/11-1	MO-FIL	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	9.73	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	97	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-FIL	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	84	%	EPA 625	-88	-88	34	139	
2010/11-1	MO-HUE	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	45.1	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-HUE	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	90	%	EPA 625	-88	-88	34	139	D
2010/11-1	MO-HUE	srgt environ	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	9.84	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	98	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-MEI	srgt environ	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	43.8	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MEI	srgt environ, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	88	%	EPA 625	-88	-88	34	139	D
2010/11-1	MO-MEI	srgt environ	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	8.92	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	89	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-MPK	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	8.54	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MPK	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	41.9	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MPK	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	85	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-MPK	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	84	%	EPA 625	-88	-88	34	139	D
2010/11-1	MO-OJA	srgt environ	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	40.7	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OJA	srgt environ, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	81	%	EPA 625	-88	-88	34	139	D
2010/11-1	MO-OJA	srgt environ	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	9.14	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	91	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-OXN	srgt environ	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	42.5	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OXN	srgt environ, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	85	%	EPA 625	-88	-88	34	139	D
2010/11-1	MO-OXN	srgt environ	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	9.46	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt environ, rec	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	95	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-OXN	srgt matrix spike	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	9.85	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	9.68	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup, rec	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	97	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-OXN	srgt matrix spike, rec	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	98	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-SIM	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	9.88	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SIM	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	45.2	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-SIM	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	86	%	EPA 625	-88	-88	34	139	D
2010/11-1	MO-SIM	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	99	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-SPA	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	10.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SPA	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	47	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-SPA	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	89	%	EPA 625	-88	-88	34	139	D
2010/11-1	MO-SPA	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	96	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-THO	srgt environ	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	46.1	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-THO	srgt environ, rec	10/20/2010	Organic	Nitrobenzene-d5	n/a	=	92	%	EPA 625	-88	-88	34	139	D
2010/11-1	MO-THO	srgt environ	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	8.16	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	78	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	MO-VEN	srgt environ	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	40.3	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt environ, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	81	%	EPA 625	-88	-88	34	139	D
2010/11-1	MO-VEN	srgt matrix spike	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	55.3	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt matrix spike dup	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	53.5	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt matrix spike dup, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	107	%	EPA 625	-88	-88	34	139	D
2010/11-1	MO-VEN	srgt matrix spike, rec	10/19/2010	Organic	Nitrobenzene-d5	n/a	=	111	%	EPA 625	-88	-88	34	139	D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-VEN	srgt environ	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	7.22	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/21/2010	Organic	Nitrobenzene-d5	n/a	=	69	%	EPA 8270Cm	-88	-88	51	143	
2010/11-1	Lab	LCS	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	25.4	µg/L	EPA 625	0.36	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	28.7	µg/L	EPA 625	0.36	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	57	%	EPA 625	-88	-88	27	78	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	51	%	EPA 625	-88	-88	27	78	
2010/11-1	Lab	method blank	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	26.3	µg/L	EPA 625	0.36	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	25.9	µg/L	EPA 625	0.36	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	52	%	EPA 625	-88	-88	22	70	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	53	%	EPA 625	-88	-88	22	70	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	29.7	µg/L	EPA 625	3.6	20			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	29.3	µg/L	EPA 625	3.6	20			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	59	%	EPA 625	-88	-88	22	70	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	59	%	EPA 625	-88	-88	22	70	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	N-Nitrosodimethylamine	n/a	=	1	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	41.9	µg/L	EPA 625	0.41	5			
2010/11-1	Lab	LCS	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	43	µg/L	EPA 625	0.41	5			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	84	%	EPA 625	-88	-88	0.1	230	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	86	%	EPA 625	-88	-88	0.1	230	
2010/11-1	Lab	method blank	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5			
2010/11-1	Lab	method blank	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	38.8	µg/L	EPA 625	0.41	5			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	39.7	µg/L	EPA 625	0.41	5			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	79	%	EPA 625	-88	-88	0.1	230	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	78	%	EPA 625	-88	-88	0.1	230	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	56.6	µg/L	EPA 625	4.1	50			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	54.7	µg/L	EPA 625	4.1	50			D
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	109	%	EPA 625	-88	-88	0.1	230	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	113	%	EPA 625	-88	-88	0.1	230	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	3	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	LCS	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	42	µg/L	EPA 625	0.23	1			
2010/11-1	Lab	LCS	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	35.8	µg/L	EPA 625	0.23	1			
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	84	%	EPA 625	-88	-88	48	129	
2010/11-1	Lab	LCS, rec	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	72	%	EPA 625	-88	-88	48	129	
2010/11-1	Lab	method blank	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1			
2010/11-1	Lab	method blank	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1			
2010/11-1	ME-SCR	matrix spike	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	32.4	µg/L	EPA 625	0.23	1			
2010/11-1	ME-SCR	matrix spike dup	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	30.6	µg/L	EPA 625	0.23	1			
2010/11-1	ME-SCR	matrix spike dup, rec	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	61	%	EPA 625	-88	-88	17	138	
2010/11-1	ME-SCR	matrix spike, rec	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	65	%	EPA 625	-88	-88	17	138	
2010/11-1	ME-SCR	matrix spike, RPD	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	6	%	EPA 625	-88	-88	0	30	
2010/11-1	MO-VEN	matrix spike	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	52.4	µg/L	EPA 625	2.3	10			D
2010/11-1	MO-VEN	matrix spike dup	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	49	µg/L	EPA 625	2.3	10			D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-VEN	matrix spike dup, rec	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	98	%	EPA 625	-88	-88	17	138	D
2010/11-1	MO-VEN	matrix spike, rec	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	105	%	EPA 625	-88	-88	17	138	D
2010/11-1	MO-VEN	matrix spike, RPD	10/19/2010	Organic	N-Nitrosodiphenylamine	n/a	=	7	%	EPA 625	-88	-88	0	30	D
2010/11-1	Lab	srgt LCS	10/25/2010	Organic	Perylene-d12	n/a	=	3.45	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/25/2010	Organic	Perylene-d12	n/a	=	69	%	EPA 525.2	-88	-88	48	141	
2010/11-1	Lab	srgt method blank	10/25/2010	Organic	Perylene-d12	n/a	=	4.29	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/25/2010	Organic	Perylene-d12	n/a	=	86	%	EPA 525.2	-88	-88	48	141	
2010/11-1	Lab	srgt LCS	10/26/2010	Organic	Perylene-d12	n/a	=	3.19	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/26/2010	Organic	Perylene-d12	n/a	=	64	%	EPA 525.2	-88	-88	48	141	
2010/11-1	Lab	srgt method blank	10/26/2010	Organic	Perylene-d12	n/a	=	4.94	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/26/2010	Organic	Perylene-d12	n/a	=	99	%	EPA 525.2	-88	-88	48	141	
2010/11-1	ME-CC	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	4.68	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-CC	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	94	%	EPA 525.2	-88	-88	48	141	
2010/11-1	ME-SCR	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	4.63	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	93	%	EPA 525.2	-88	-88	48	141	
2010/11-1	ME-VR2	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	4.8	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	96	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-CAM	srgt environ	10/25/2010	Organic	Perylene-d12	n/a	=	2.33	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/25/2010	Organic	Perylene-d12	n/a	=	47	%	EPA 525.2	-88	-88	48	141	GN
2010/11-1	MO-FIL	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	3.08	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	58	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-HUE	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	4.44	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	89	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-HUE	srgt matrix spike	10/26/2010	Organic	Perylene-d12	n/a	=	4.37	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-HUE	srgt matrix spike dup	10/26/2010	Organic	Perylene-d12	n/a	=	4.14	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-HUE	srgt matrix spike dup, rec	10/26/2010	Organic	Perylene-d12	n/a	=	83	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-HUE	srgt matrix spike, rec	10/26/2010	Organic	Perylene-d12	n/a	=	87	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-MEI	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	3.14	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	63	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-MPK	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	2.48	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-MPK	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	50	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-OJA	srgt environ	10/25/2010	Organic	Perylene-d12	n/a	=	2.63	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/25/2010	Organic	Perylene-d12	n/a	=	53	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-OJA	srgt matrix spike	10/25/2010	Organic	Perylene-d12	n/a	=	3.51	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OJA	srgt matrix spike, rec	10/25/2010	Organic	Perylene-d12	n/a	=	70	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-OJA	srgt matrix spike dup	10/26/2010	Organic	Perylene-d12	n/a	=	2.99	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OJA	srgt matrix spike dup, rec	10/26/2010	Organic	Perylene-d12	n/a	=	60	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-OXN	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	2.71	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OXN	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	50	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-SIM	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	2.51	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-SIM	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	50	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-SPA	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	2.18	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	44	%	EPA 525.2	-88	-88	48	141	GN
2010/11-1	MO-THO	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	2.62	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	52	%	EPA 525.2	-88	-88	48	141	
2010/11-1	MO-VEN	srgt environ	10/26/2010	Organic	Perylene-d12	n/a	=	2.31	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/26/2010	Organic	Perylene-d12	n/a	=	46	%	EPA 525.2	-88	-88	48	141	GN

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS	10/20/2010	Organic	Phenanthrene	n/a	=	4.54	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Phenanthrene	n/a	=	91	%	EPA 8270Cm	-88	-88	54	120	
2010/11-1	Lab	method blank	10/20/2010	Organic	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Phenanthrene	n/a	=	4.68	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Phenanthrene	n/a	=	94	%	EPA 8270Cm	-88	-88	54	120	
2010/11-1	Lab	method blank	10/21/2010	Organic	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Phenanthrene	n/a	=	4.52	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Phenanthrene	n/a	=	4.27	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Phenanthrene	n/a	=	85	%	EPA 8270Cm	-88	-88	54	120	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Phenanthrene	n/a	=	90	%	EPA 8270Cm	-88	-88	54	120	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Phenanthrene	n/a	=	6	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Phenanthrene	n/a	=	4.39	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Phenanthrene	n/a	=	4.44	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Phenanthrene	n/a	=	89	%	EPA 8270Cm	-88	-88	54	120	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Phenanthrene	n/a	=	88	%	EPA 8270Cm	-88	-88	54	120	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Phenanthrene	n/a	=	1	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	LCS	10/22/2010	Organic	Phenol	n/a	=	1.48	µg/L	EPA 8270Cm	0.35	1			
2010/11-1	Lab	LCS	10/22/2010	Organic	Phenol	n/a	=	1.66	µg/L	EPA 8270Cm	0.35	1			
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	Phenol	n/a	=	30	%	EPA 8270Cm	-88	-88	14	40	
2010/11-1	Lab	LCS, rec	10/22/2010	Organic	Phenol	n/a	=	33	%	EPA 8270Cm	-88	-88	14	40	
2010/11-1	Lab	method blank	10/22/2010	Organic	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1			
2010/11-1	Lab	method blank	10/22/2010	Organic	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1			
2010/11-1	ME-CC	matrix spike	10/22/2010	Organic	Phenol	n/a	=	1.55	µg/L	EPA 8270Cm	0.35	1			
2010/11-1	ME-CC	matrix spike dup	10/22/2010	Organic	Phenol	n/a	=	1.52	µg/L	EPA 8270Cm	0.35	1			
2010/11-1	ME-CC	matrix spike dup, rec	10/22/2010	Organic	Phenol	n/a	=	30	%	EPA 8270Cm	-88	-88	14	50	
2010/11-1	ME-CC	matrix spike, rec	10/22/2010	Organic	Phenol	n/a	=	31	%	EPA 8270Cm	-88	-88	14	50	
2010/11-1	ME-CC	matrix spike, RPD	10/22/2010	Organic	Phenol	n/a	=	2	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/22/2010	Organic	Phenol	n/a	=	2.13	µg/L	EPA 8270Cm	0.35	1			
2010/11-1	MO-OXN	matrix spike dup	10/22/2010	Organic	Phenol	n/a	=	2.02	µg/L	EPA 8270Cm	0.35	1			
2010/11-1	MO-OXN	matrix spike dup, rec	10/22/2010	Organic	Phenol	n/a	=	40	%	EPA 8270Cm	-88	-88	14	50	
2010/11-1	MO-OXN	matrix spike, rec	10/22/2010	Organic	Phenol	n/a	=	43	%	EPA 8270Cm	-88	-88	14	50	
2010/11-1	MO-OXN	matrix spike, RPD	10/22/2010	Organic	Phenol	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	Phenol-d5	n/a	=	35.1	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	Phenol-d5	n/a	=	32	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	Phenol-d5	n/a	=	32	%	EPA 625	-88	-88	2	70	
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	Phenol-d5	n/a	=	35	%	EPA 625	-88	-88	2	70	
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	Phenol-d5	n/a	=	36.2	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	Phenol-d5	n/a	=	31.7	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	Phenol-d5	n/a	=	32	%	EPA 625	-88	-88	2	70	
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	Phenol-d5	n/a	=	36	%	EPA 625	-88	-88	2	70	
2010/11-1	Lab	srgt LCS	10/22/2010	Organic	Phenol-d5	n/a	=	5.74	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS	10/22/2010	Organic	Phenol-d5	n/a	=	5.47	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/22/2010	Organic	Phenol-d5	n/a	=	27	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	Lab	srgt LCS, rec	10/22/2010	Organic	Phenol-d5	n/a	=	29	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	Lab	srgt method blank	10/22/2010	Organic	Phenol-d5	n/a	=	6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt method blank	10/22/2010	Organic	Phenol-d5	n/a	=	5.66	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/22/2010	Organic	Phenol-d5	n/a	=	30	%	EPA 8270Cm	-88	-88	13	58	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	srgt method blank, rec	10/22/2010	Organic	Phenol-d5	n/a	=	28	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	ME-CC	srgt environ	10/20/2010	Organic	Phenol-d5	n/a	=	30.7	µg/L	EPA 625	-88	-88			D
2010/11-1	ME-CC	srgt environ, rec	10/20/2010	Organic	Phenol-d5	n/a	=	31	%	EPA 625	-88	-88	2	70	D
2010/11-1	ME-CC	srgt environ	10/22/2010	Organic	Phenol-d5	n/a	=	5.35	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt environ, rec	10/22/2010	Organic	Phenol-d5	n/a	=	27	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	ME-CC	srgt matrix spike	10/22/2010	Organic	Phenol-d5	n/a	=	5.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt matrix spike dup	10/22/2010	Organic	Phenol-d5	n/a	=	5.26	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt matrix spike dup, rec	10/22/2010	Organic	Phenol-d5	n/a	=	26	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	ME-CC	srgt matrix spike, rec	10/22/2010	Organic	Phenol-d5	n/a	=	27	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	ME-SCR	srgt matrix spike	10/19/2010	Organic	Phenol-d5	n/a	=	28.8	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup	10/19/2010	Organic	Phenol-d5	n/a	=	27.3	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup, rec	10/19/2010	Organic	Phenol-d5	n/a	=	27	%	EPA 625	-88	-88	2	70	
2010/11-1	ME-SCR	srgt matrix spike, rec	10/19/2010	Organic	Phenol-d5	n/a	=	29	%	EPA 625	-88	-88	2	70	
2010/11-1	ME-SCR	srgt environ	10/20/2010	Organic	Phenol-d5	n/a	=	23.4	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/20/2010	Organic	Phenol-d5	n/a	=	23	%	EPA 625	-88	-88	2	70	
2010/11-1	ME-SCR	srgt environ	10/22/2010	Organic	Phenol-d5	n/a	=	5.28	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/22/2010	Organic	Phenol-d5	n/a	=	26	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	ME-VR2	srgt environ	10/20/2010	Organic	Phenol-d5	n/a	=	35.1	µg/L	EPA 625	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/20/2010	Organic	Phenol-d5	n/a	=	35	%	EPA 625	-88	-88	2	70	
2010/11-1	ME-VR2	srgt environ	10/22/2010	Organic	Phenol-d5	n/a	=	5.39	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/22/2010	Organic	Phenol-d5	n/a	=	27	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-CAM	srgt environ	10/19/2010	Organic	Phenol-d5	n/a	=	26.1	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-CAM	srgt environ, rec	10/19/2010	Organic	Phenol-d5	n/a	=	26	%	EPA 625	-88	-88	2	70	D
2010/11-1	MO-CAM	srgt environ	10/22/2010	Organic	Phenol-d5	n/a	=	6.11	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/22/2010	Organic	Phenol-d5	n/a	=	31	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-FIL	srgt environ	10/20/2010	Organic	Phenol-d5	n/a	=	34.3	µg/L	EPA 625	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/20/2010	Organic	Phenol-d5	n/a	=	34	%	EPA 625	-88	-88	2	70	
2010/11-1	MO-FIL	srgt environ	10/22/2010	Organic	Phenol-d5	n/a	=	6.25	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/22/2010	Organic	Phenol-d5	n/a	=	31	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-HUE	srgt environ	10/20/2010	Organic	Phenol-d5	n/a	=	36.4	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-HUE	srgt environ, rec	10/20/2010	Organic	Phenol-d5	n/a	=	36	%	EPA 625	-88	-88	2	70	D
2010/11-1	MO-HUE	srgt environ	10/23/2010	Organic	Phenol-d5	n/a	=	6.12	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/23/2010	Organic	Phenol-d5	n/a	=	31	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-MEI	srgt environ	10/19/2010	Organic	Phenol-d5	n/a	=	31.6	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MEI	srgt environ, rec	10/19/2010	Organic	Phenol-d5	n/a	=	32	%	EPA 625	-88	-88	2	70	D
2010/11-1	MO-MEI	srgt environ	10/22/2010	Organic	Phenol-d5	n/a	=	6.61	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/22/2010	Organic	Phenol-d5	n/a	=	33	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-MPK	srgt environ	10/20/2010	Organic	Phenol-d5	n/a	=	34.1	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MPK	srgt environ, rec	10/20/2010	Organic	Phenol-d5	n/a	=	34	%	EPA 625	-88	-88	2	70	D
2010/11-1	MO-MPK	srgt environ	10/23/2010	Organic	Phenol-d5	n/a	=	5.84	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MPK	srgt environ, rec	10/23/2010	Organic	Phenol-d5	n/a	=	29	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-OJA	srgt environ	10/19/2010	Organic	Phenol-d5	n/a	=	29.8	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OJA	srgt environ, rec	10/19/2010	Organic	Phenol-d5	n/a	=	30	%	EPA 625	-88	-88	2	70	D
2010/11-1	MO-OJA	srgt environ	10/22/2010	Organic	Phenol-d5	n/a	=	6.39	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/22/2010	Organic	Phenol-d5	n/a	=	32	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-OXN	srgt environ	10/19/2010	Organic	Phenol-d5	n/a	=	25.3	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OXN	srgt environ, rec	10/19/2010	Organic	Phenol-d5	n/a	=	25	%	EPA 625	-88	-88	2	70	D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-OXN	srgt environ	10/22/2010	Organic	Phenol-d5	n/a	=	6.8	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt environ, rec	10/22/2010	Organic	Phenol-d5	n/a	=	34	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-OXN	srgt matrix spike	10/22/2010	Organic	Phenol-d5	n/a	=	6.86	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup	10/22/2010	Organic	Phenol-d5	n/a	=	6.68	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup, rec	10/22/2010	Organic	Phenol-d5	n/a	=	33	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-OXN	srgt matrix spike, rec	10/22/2010	Organic	Phenol-d5	n/a	=	34	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-SIM	srgt environ	10/20/2010	Organic	Phenol-d5	n/a	=	32.3	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-SIM	srgt environ, rec	10/20/2010	Organic	Phenol-d5	n/a	=	31	%	EPA 625	-88	-88	2	70	D
2010/11-1	MO-SIM	srgt environ	10/22/2010	Organic	Phenol-d5	n/a	=	6.06	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SIM	srgt environ, rec	10/22/2010	Organic	Phenol-d5	n/a	=	30	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-SPA	srgt environ	10/20/2010	Organic	Phenol-d5	n/a	=	35.2	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-SPA	srgt environ, rec	10/20/2010	Organic	Phenol-d5	n/a	=	33	%	EPA 625	-88	-88	2	70	D
2010/11-1	MO-SPA	srgt environ	10/22/2010	Organic	Phenol-d5	n/a	=	7.17	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	10/22/2010	Organic	Phenol-d5	n/a	=	34	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-THO	srgt environ	10/20/2010	Organic	Phenol-d5	n/a	=	36.5	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-THO	srgt environ, rec	10/20/2010	Organic	Phenol-d5	n/a	=	36	%	EPA 625	-88	-88	2	70	D
2010/11-1	MO-THO	srgt environ	10/23/2010	Organic	Phenol-d5	n/a	=	5.55	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/23/2010	Organic	Phenol-d5	n/a	=	26	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	MO-VEN	srgt environ	10/19/2010	Organic	Phenol-d5	n/a	=	29	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt environ, rec	10/19/2010	Organic	Phenol-d5	n/a	=	29	%	EPA 625	-88	-88	2	70	D
2010/11-1	MO-VEN	srgt matrix spike	10/19/2010	Organic	Phenol-d5	n/a	=	34.8	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt matrix spike dup	10/19/2010	Organic	Phenol-d5	n/a	=	33.3	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt matrix spike dup, rec	10/19/2010	Organic	Phenol-d5	n/a	=	33	%	EPA 625	-88	-88	2	70	D
2010/11-1	MO-VEN	srgt matrix spike, rec	10/19/2010	Organic	Phenol-d5	n/a	=	35	%	EPA 625	-88	-88	2	70	D
2010/11-1	MO-VEN	srgt environ	10/22/2010	Organic	Phenol-d5	n/a	=	4.96	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/22/2010	Organic	Phenol-d5	n/a	=	24	%	EPA 8270Cm	-88	-88	13	58	
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	46	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	56.2	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	92	%	EPA 625	-88	-88	6	145	
2010/11-1	Lab	srgt LCS, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	112	%	EPA 625	-88	-88	6	145	
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	43.8	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	38.9	µg/L	EPA 625	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	78	%	EPA 625	-88	-88	6	145	
2010/11-1	Lab	srgt method blank, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	88	%	EPA 625	-88	-88	6	145	
2010/11-1	Lab	srgt LCS	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	14.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	146	%	EPA 8270Cm	-88	-88	19	134	GN
2010/11-1	Lab	srgt method blank	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	14	µg/L	EPA 8270Cm	-88	-88			GN
2010/11-1	Lab	srgt method blank, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	140	%	EPA 8270Cm	-88	-88	19	134	GN
2010/11-1	Lab	srgt LCS	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	13.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	132	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	Lab	srgt method blank	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	12.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	126	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	ME-CC	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	12.3	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	45.8	µg/L	EPA 625	-88	-88			D
2010/11-1	ME-CC	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	92	%	EPA 625	-88	-88	6	145	D
2010/11-1	ME-CC	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	123	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	ME-CC	srgt matrix spike	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	13.7	µg/L	EPA 8270Cm	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-CC	srgt matrix spike dup	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	12.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-CC	srgt matrix spike dup, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	122	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	ME-CC	srgt matrix spike, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	137	%	EPA 8270Cm	-88	-88	19	134	GN
2010/11-1	ME-SCR	srgt matrix spike	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	44	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	29.3	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt matrix spike dup, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	59	%	EPA 625	-88	-88	6	145	
2010/11-1	ME-SCR	srgt matrix spike, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	88	%	EPA 625	-88	-88	6	145	
2010/11-1	ME-SCR	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	33.3	µg/L	EPA 625	-88	-88			
2010/11-1	ME-SCR	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	11.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	67	%	EPA 625	-88	-88	6	145	
2010/11-1	ME-SCR	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	111	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	ME-VR2	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	15.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	ME-VR2	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	35.9	µg/L	EPA 625	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	151	%	EPA 8270Cm	-88	-88	19	134	GN
2010/11-1	ME-VR2	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	72	%	EPA 625	-88	-88	6	145	
2010/11-1	MO-CAM	srgt environ	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	68.7	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-CAM	srgt environ, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	137	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-CAM	srgt environ	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	11.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	111	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	MO-FIL	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	48.9	µg/L	EPA 625	-88	-88			
2010/11-1	MO-FIL	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	13.9	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	98	%	EPA 625	-88	-88	6	145	
2010/11-1	MO-FIL	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	139	%	EPA 8270Cm	-88	-88	19	134	GN
2010/11-1	MO-HUE	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	55.8	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-HUE	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	112	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-HUE	srgt environ	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	15.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	154	%	EPA 8270Cm	-88	-88	19	134	GN
2010/11-1	MO-MEI	srgt environ	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	62.1	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MEI	srgt environ, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	124	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-MEI	srgt environ	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	10.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	104	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	MO-MPK	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	12.7	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-MPK	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	52.5	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-MPK	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	105	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-MPK	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	127	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	MO-OJA	srgt environ	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	52.3	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OJA	srgt environ, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	105	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-OJA	srgt environ	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	10.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	106	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	MO-OXN	srgt environ	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	40.3	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-OXN	srgt environ, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	81	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-OXN	srgt environ	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	11.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt environ, rec	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	116	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	MO-OXN	srgt matrix spike	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	11.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	11.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-OXN	srgt matrix spike dup, rec	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	116	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	MO-OXN	srgt matrix spike, rec	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	112	%	EPA 8270Cm	-88	-88	19	134	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-SIM	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	14.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SIM	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	56	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-SIM	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	106	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-SIM	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	144	%	EPA 8270Cm	-88	-88	19	134	GN
2010/11-1	MO-SPA	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	37.5	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-SPA	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	14.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	71	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-SPA	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	137	%	EPA 8270Cm	-88	-88	19	134	GN
2010/11-1	MO-THO	srgt environ	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	47.8	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-THO	srgt environ, rec	10/20/2010	Organic	p-Terphenyl-d14	n/a	=	96	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-THO	srgt environ	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	10.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	101	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	MO-VEN	srgt environ	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	50.8	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt environ, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	102	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-VEN	srgt matrix spike	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	57.8	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt matrix spike dup	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	48.7	µg/L	EPA 625	-88	-88			D
2010/11-1	MO-VEN	srgt matrix spike dup, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	97	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-VEN	srgt matrix spike, rec	10/19/2010	Organic	p-Terphenyl-d14	n/a	=	116	%	EPA 625	-88	-88	6	145	D
2010/11-1	MO-VEN	srgt environ	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	8.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/21/2010	Organic	p-Terphenyl-d14	n/a	=	78	%	EPA 8270Cm	-88	-88	19	134	
2010/11-1	Lab	LCS	10/20/2010	Organic	Pyrene	n/a	=	5.92	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-1	Lab	LCS, rec	10/20/2010	Organic	Pyrene	n/a	=	118	%	EPA 8270Cm	-88	-88	52	115	EUM
2010/11-1	Lab	method blank	10/20/2010	Organic	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-1	Lab	LCS	10/21/2010	Organic	Pyrene	n/a	=	6.1	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-1	Lab	LCS, rec	10/21/2010	Organic	Pyrene	n/a	=	122	%	EPA 8270Cm	-88	-88	52	115	EUM
2010/11-1	Lab	method blank	10/21/2010	Organic	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-1	ME-CC	matrix spike	10/20/2010	Organic	Pyrene	n/a	=	5.57	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-1	ME-CC	matrix spike dup	10/20/2010	Organic	Pyrene	n/a	=	5.2	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-1	ME-CC	matrix spike dup, rec	10/20/2010	Organic	Pyrene	n/a	=	104	%	EPA 8270Cm	-88	-88	52	115	
2010/11-1	ME-CC	matrix spike, rec	10/20/2010	Organic	Pyrene	n/a	=	111	%	EPA 8270Cm	-88	-88	52	115	
2010/11-1	ME-CC	matrix spike, RPD	10/20/2010	Organic	Pyrene	n/a	=	7	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	MO-OXN	matrix spike	10/21/2010	Organic	Pyrene	n/a	=	5.8	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-1	MO-OXN	matrix spike dup	10/21/2010	Organic	Pyrene	n/a	=	5.7	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-1	MO-OXN	matrix spike dup, rec	10/21/2010	Organic	Pyrene	n/a	=	108	%	EPA 8270Cm	-88	-88	52	115	
2010/11-1	MO-OXN	matrix spike, rec	10/21/2010	Organic	Pyrene	n/a	=	110	%	EPA 8270Cm	-88	-88	52	115	
2010/11-1	MO-OXN	matrix spike, RPD	10/21/2010	Organic	Pyrene	n/a	=	2	%	EPA 8270Cm	-88	-88	0	30	
2010/11-1	Lab	srgt LCS	10/13/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.469	µg/L	EPA 608	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/13/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	94	%	EPA 608	-88	-88	26	131	
2010/11-1	Lab	srgt method blank	10/13/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.44	µg/L	EPA 608	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/13/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	88	%	EPA 608	-88	-88	26	131	
2010/11-1	Lab	srgt LCS	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.09	µg/L	EPA 608	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	90	%	EPA 608	-88	-88	26	131	
2010/11-1	Lab	srgt method blank	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0901	µg/L	EPA 608	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	90	%	EPA 608	-88	-88	26	131	
2010/11-1	ME-CC	srgt environ	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0317	µg/L	EPA 608	-88	-88			
2010/11-1	ME-CC	srgt environ, rec	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	30	%	EPA 608	-88	-88	26	131	
2010/11-1	ME-SCR	srgt environ	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0358	µg/L	EPA 608	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-SCR	srgt environ, rec	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	36	%	EPA 608	-88	-88	26	131	
2010/11-1	ME-VR2	srgt environ	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0398	µg/L	EPA 608	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	40	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-CAM	srgt environ	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0434	µg/L	EPA 608	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	43	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-FIL	srgt environ	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0448	µg/L	EPA 608	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	43	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-HUE	srgt environ	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0388	µg/L	EPA 608	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	39	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-MEI	srgt environ	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0345	µg/L	EPA 608	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	33	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-MPK	srgt environ	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0377	µg/L	EPA 608	-88	-88			
2010/11-1	MO-MPK	srgt environ, rec	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	38	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-MPK	srgt matrix spike	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0453	µg/L	EPA 608	-88	-88			
2010/11-1	MO-MPK	srgt matrix spike dup	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0595	µg/L	EPA 608	-88	-88			
2010/11-1	MO-MPK	srgt matrix spike dup, rec	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	60	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-MPK	srgt matrix spike, rec	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	45	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-OJA	srgt environ	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0212	µg/L	EPA 608	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	21	%	EPA 608	-88	-88	26	131	GN
2010/11-1	MO-OJA	srgt matrix spike	10/19/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0422	µg/L	EPA 608	-88	-88			
2010/11-1	MO-OJA	srgt matrix spike dup	10/19/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0288	µg/L	EPA 608	-88	-88			
2010/11-1	MO-OJA	srgt matrix spike dup, rec	10/19/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	29	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-OJA	srgt matrix spike, rec	10/19/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	42	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-OXN	srgt environ	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0399	µg/L	EPA 608	-88	-88			
2010/11-1	MO-OXN	srgt environ, rec	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	40	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-SIM	srgt environ	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0318	µg/L	EPA 608	-88	-88			
2010/11-1	MO-SIM	srgt environ, rec	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	32	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-SPA	srgt environ	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0374	µg/L	EPA 608	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	37	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-THO	srgt environ	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0352	µg/L	EPA 608	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/16/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	33	%	EPA 608	-88	-88	26	131	
2010/11-1	MO-VEN	srgt environ	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0476	µg/L	EPA 608	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	48	%	EPA 608	-88	-88	26	131	
2010/11-1	Lab	srgt LCS	10/25/2010	Organic	Triphenylphosphate	n/a	=	0.712	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt LCS	10/25/2010	Organic	Triphenylphosphate	n/a	=	5.5	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/25/2010	Organic	Triphenylphosphate	n/a	=	142	%	EPA 525.2	-88	-88	71	150	
2010/11-1	Lab	srgt LCS, rec	10/25/2010	Organic	Triphenylphosphate	n/a	=	110	%	EPA 525.2	-88	-88	71	150	
2010/11-1	Lab	srgt matrix spike	10/25/2010	Organic	Triphenylphosphate	n/a	=	0.702	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt matrix spike dup	10/25/2010	Organic	Triphenylphosphate	n/a	=	0.909	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt matrix spike dup, rec	10/25/2010	Organic	Triphenylphosphate	n/a	=	182	%	EPA 525.2	-88	-88	71	150	GN
2010/11-1	Lab	srgt matrix spike, rec	10/25/2010	Organic	Triphenylphosphate	n/a	=	140	%	EPA 525.2	-88	-88	71	150	
2010/11-1	Lab	srgt method blank	10/25/2010	Organic	Triphenylphosphate	n/a	=	0.562	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt method blank	10/25/2010	Organic	Triphenylphosphate	n/a	=	4.88	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/25/2010	Organic	Triphenylphosphate	n/a	=	112	%	EPA 525.2	-88	-88	71	150	
2010/11-1	Lab	srgt method blank, rec	10/25/2010	Organic	Triphenylphosphate	n/a	=	98	%	EPA 525.2	-88	-88	71	150	
2010/11-1	Lab	srgt LCS	10/26/2010	Organic	Triphenylphosphate	n/a	=	6.8	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	136	%	EPA 525.2	-88	-88	71	150	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	srgt method blank	10/26/2010	Organic	Triphenylphosphate	n/a	=	6.66	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	133	%	EPA 525.2	-88	-88	71	150	
2010/11-1	Lab	srgt LCS	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.37	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt LCS, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	74	%	EPA 525.2	-88	-88	71	150	
2010/11-1	Lab	srgt matrix spike	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.437	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt matrix spike dup	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.408	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt matrix spike dup, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	82	%	EPA 525.2	-88	-88	71	150	
2010/11-1	Lab	srgt matrix spike, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	87	%	EPA 525.2	-88	-88	71	150	
2010/11-1	Lab	srgt method blank	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.392	µg/L	EPA 525.2	-88	-88			
2010/11-1	Lab	srgt method blank, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	78	%	EPA 525.2	-88	-88	71	150	
2010/11-1	ME-CC	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	7.42	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-CC	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	148	%	EPA 525.2	-88	-88	71	150	
2010/11-1	ME-CC	srgt environ	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.205	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-CC	srgt environ, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	41	%	EPA 525.2	-88	-88	71	150	GN
2010/11-1	ME-SCR	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	6.85	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	137	%	EPA 525.2	-88	-88	71	150	
2010/11-1	ME-SCR	srgt environ	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.251	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	50	%	EPA 525.2	-88	-88	71	150	GN
2010/11-1	ME-VR2	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	7.05	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	141	%	EPA 525.2	-88	-88	71	150	
2010/11-1	ME-VR2	srgt environ	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.215	µg/L	EPA 525.2	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	43	%	EPA 525.2	-88	-88	71	150	GN
2010/11-1	MO-CAM	srgt environ	10/25/2010	Organic	Triphenylphosphate	n/a	=	6.84	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/25/2010	Organic	Triphenylphosphate	n/a	=	137	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-CAM	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	1.03	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	207	%	EPA 525.2	-88	-88	71	150	GN
2010/11-1	MO-FIL	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	7.75	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	147	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-FIL	srgt environ	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.19	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	38	%	EPA 525.2	-88	-88	71	150	GN
2010/11-1	MO-HUE	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	7.05	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-HUE	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	0.903	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	181	%	EPA 525.2	-88	-88	71	150	GN
2010/11-1	MO-HUE	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	141	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-HUE	srgt matrix spike	10/26/2010	Organic	Triphenylphosphate	n/a	=	6.72	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-HUE	srgt matrix spike dup	10/26/2010	Organic	Triphenylphosphate	n/a	=	6.67	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-HUE	srgt matrix spike dup, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	133	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-HUE	srgt matrix spike, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	134	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-MEI	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	6.84	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-MEI	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	0.518	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	104	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-MEI	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	137	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-MPK	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	6.34	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-MPK	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	127	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-MPK	srgt environ	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.194	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-MPK	srgt environ, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	39	%	EPA 525.2	-88	-88	71	150	GN
2010/11-1	MO-OJA	srgt environ	10/25/2010	Organic	Triphenylphosphate	n/a	=	6.53	µg/L	EPA 525.2	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-OJA	srgt environ, rec	10/25/2010	Organic	Triphenylphosphate	n/a	=	131	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-OJA	srgt matrix spike	10/25/2010	Organic	Triphenylphosphate	n/a	=	6.66	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OJA	srgt matrix spike, rec	10/25/2010	Organic	Triphenylphosphate	n/a	=	133	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-OJA	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	0.737	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	147	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-OJA	srgt matrix spike dup	10/26/2010	Organic	Triphenylphosphate	n/a	=	6.78	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OJA	srgt matrix spike dup, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	136	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-OXN	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	7.78	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OXN	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	0.561	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-OXN	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	144	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-OXN	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	112	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-SIM	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	7.02	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-SIM	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	140	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-SIM	srgt environ	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.221	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-SIM	srgt environ, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	44	%	EPA 525.2	-88	-88	71	150	GN
2010/11-1	MO-SPA	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	6.31	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	126	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-SPA	srgt environ	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.348	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	70	%	EPA 525.2	-88	-88	71	150	GN
2010/11-1	MO-THO	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	7.11	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	142	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-THO	srgt environ	11/2/2010	Organic	Triphenylphosphate	n/a	=	0.224	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	11/2/2010	Organic	Triphenylphosphate	n/a	=	45	%	EPA 525.2	-88	-88	71	150	GN
2010/11-1	MO-VEN	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	0.562	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-VEN	srgt environ	10/26/2010	Organic	Triphenylphosphate	n/a	=	7.23	µg/L	EPA 525.2	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	145	%	EPA 525.2	-88	-88	71	150	
2010/11-1	MO-VEN	srgt environ, rec	10/26/2010	Organic	Triphenylphosphate	n/a	=	112	%	EPA 525.2	-88	-88	71	150	
2010/11-1	Lab	srgt LCS	10/13/2010	PCB	PCB 209	n/a	=	0.521	µg/L	EPA 608	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/13/2010	PCB	PCB 209	n/a	=	104	%	EPA 608	-88	-88	0.1	154	
2010/11-1	Lab	srgt method blank	10/13/2010	PCB	PCB 209	n/a	=	0.47	µg/L	EPA 608	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/13/2010	PCB	PCB 209	n/a	=	94	%	EPA 608	-88	-88	0.1	154	
2010/11-1	Lab	srgt LCS	10/15/2010	PCB	PCB 209	n/a	=	0.0918	µg/L	EPA 608	-88	-88			
2010/11-1	Lab	srgt LCS, rec	10/15/2010	PCB	PCB 209	n/a	=	92	%	EPA 608	-88	-88	0.1	154	
2010/11-1	Lab	srgt method blank	10/15/2010	PCB	PCB 209	n/a	=	0.09	µg/L	EPA 608	-88	-88			
2010/11-1	Lab	srgt method blank, rec	10/15/2010	PCB	PCB 209	n/a	=	90	%	EPA 608	-88	-88	0.1	154	
2010/11-1	ME-CC	srgt environ	10/16/2010	PCB	PCB 209	n/a	=	0.0322	µg/L	EPA 608	-88	-88			
2010/11-1	ME-CC	srgt environ, rec	10/16/2010	PCB	PCB 209	n/a	=	31	%	EPA 608	-88	-88	0.1	154	
2010/11-1	ME-SCR	srgt environ	10/16/2010	PCB	PCB 209	n/a	=	0.0284	µg/L	EPA 608	-88	-88			
2010/11-1	ME-SCR	srgt environ, rec	10/16/2010	PCB	PCB 209	n/a	=	28	%	EPA 608	-88	-88	0.1	154	
2010/11-1	ME-VR2	srgt environ	10/16/2010	PCB	PCB 209	n/a	=	0.032	µg/L	EPA 608	-88	-88			
2010/11-1	ME-VR2	srgt environ, rec	10/16/2010	PCB	PCB 209	n/a	=	32	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-CAM	srgt environ	10/15/2010	PCB	PCB 209	n/a	=	0.0364	µg/L	EPA 608	-88	-88			
2010/11-1	MO-CAM	srgt environ, rec	10/15/2010	PCB	PCB 209	n/a	=	36	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-FIL	srgt environ	10/16/2010	PCB	PCB 209	n/a	=	0.0399	µg/L	EPA 608	-88	-88			
2010/11-1	MO-FIL	srgt environ, rec	10/16/2010	PCB	PCB 209	n/a	=	38	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-HUE	srgt environ	10/16/2010	PCB	PCB 209	n/a	=	0.0504	µg/L	EPA 608	-88	-88			
2010/11-1	MO-HUE	srgt environ, rec	10/16/2010	PCB	PCB 209	n/a	=	50	%	EPA 608	-88	-88	0.1	154	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-MEI	srgt environ	10/15/2010	PCB	PCB 209	n/a	=	0.0282	µg/L	EPA 608	-88	-88			
2010/11-1	MO-MEI	srgt environ, rec	10/15/2010	PCB	PCB 209	n/a	=	27	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-MPK	srgt environ	10/16/2010	PCB	PCB 209	n/a	=	0.0397	µg/L	EPA 608	-88	-88			
2010/11-1	MO-MPK	srgt environ, rec	10/16/2010	PCB	PCB 209	n/a	=	40	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-MPK	srgt matrix spike	10/16/2010	PCB	PCB 209	n/a	=	0.0411	µg/L	EPA 608	-88	-88			
2010/11-1	MO-MPK	srgt matrix spike dup	10/16/2010	PCB	PCB 209	n/a	=	0.0509	µg/L	EPA 608	-88	-88			
2010/11-1	MO-MPK	srgt matrix spike dup, rec	10/16/2010	PCB	PCB 209	n/a	=	51	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-MPK	srgt matrix spike, rec	10/16/2010	PCB	PCB 209	n/a	=	41	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-OJA	srgt environ	10/15/2010	PCB	PCB 209	n/a	=	0.0223	µg/L	EPA 608	-88	-88			
2010/11-1	MO-OJA	srgt environ, rec	10/15/2010	PCB	PCB 209	n/a	=	22	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-OJA	srgt matrix spike	10/19/2010	PCB	PCB 209	n/a	=	0.0412	µg/L	EPA 608	-88	-88			
2010/11-1	MO-OJA	srgt matrix spike dup	10/19/2010	PCB	PCB 209	n/a	=	0.0248	µg/L	EPA 608	-88	-88			
2010/11-1	MO-OJA	srgt matrix spike dup, rec	10/19/2010	PCB	PCB 209	n/a	=	25	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-OJA	srgt matrix spike, rec	10/19/2010	PCB	PCB 209	n/a	=	41	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-OXN	srgt environ	10/15/2010	PCB	PCB 209	n/a	=	0.0306	µg/L	EPA 608	-88	-88			
2010/11-1	MO-OXN	srgt environ, rec	10/15/2010	PCB	PCB 209	n/a	=	31	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-SIM	srgt environ	10/16/2010	PCB	PCB 209	n/a	=	0.0269	µg/L	EPA 608	-88	-88			
2010/11-1	MO-SIM	srgt environ, rec	10/16/2010	PCB	PCB 209	n/a	=	27	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-SPA	srgt environ	10/16/2010	PCB	PCB 209	n/a	=	0.029	µg/L	EPA 608	-88	-88			
2010/11-1	MO-SPA	srgt environ, rec	10/16/2010	PCB	PCB 209	n/a	=	29	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-THO	srgt environ	10/16/2010	PCB	PCB 209	n/a	=	0.04	µg/L	EPA 608	-88	-88			
2010/11-1	MO-THO	srgt environ, rec	10/16/2010	PCB	PCB 209	n/a	=	38	%	EPA 608	-88	-88	0.1	154	
2010/11-1	MO-VEN	srgt environ	10/15/2010	PCB	PCB 209	n/a	=	0.0384	µg/L	EPA 608	-88	-88			
2010/11-1	MO-VEN	srgt environ, rec	10/15/2010	PCB	PCB 209	n/a	=	38	%	EPA 608	-88	-88	0.1	154	
2010/11-1	Lab	method blank	10/13/2010	PCB	PCB Aroclor 1016	n/a	<	0.25	µg/L	EPA 608	0.25	2.5			
2010/11-1	Lab	method blank	10/15/2010	PCB	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5			
2010/11-1	Lab	method blank	10/13/2010	PCB	PCB Aroclor 1221	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			
2010/11-1	Lab	method blank	10/15/2010	PCB	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5			
2010/11-1	Lab	method blank	10/13/2010	PCB	PCB Aroclor 1232	n/a	<	0.75	µg/L	EPA 608	0.75	2.5			
2010/11-1	Lab	method blank	10/15/2010	PCB	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5			
2010/11-1	Lab	method blank	10/13/2010	PCB	PCB Aroclor 1242	n/a	<	0.35	µg/L	EPA 608	0.35	2.5			
2010/11-1	Lab	method blank	10/15/2010	PCB	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5			
2010/11-1	Lab	method blank	10/13/2010	PCB	PCB Aroclor 1248	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			
2010/11-1	Lab	method blank	10/15/2010	PCB	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5			
2010/11-1	Lab	method blank	10/13/2010	PCB	PCB Aroclor 1254	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			
2010/11-1	Lab	method blank	10/15/2010	PCB	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5			
2010/11-1	Lab	method blank	10/13/2010	PCB	PCB Aroclor 1260	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			
2010/11-1	Lab	method blank	10/15/2010	PCB	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5			
2010/11-1	Lab	LCS	10/12/2010	Pesticide	2,4,5-T	n/a	=	1.81	µg/L	EPA 515.3	0.05	0.2			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	2,4,5-T	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	2,4,5-T	n/a	=	1.71	µg/L	EPA 515.3	0.05	0.2			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	2,4,5-T	n/a	=	1.68	µg/L	EPA 515.3	0.05	0.2			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	2,4,5-T	n/a	=	84	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	2,4,5-T	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	2,4,5-T	n/a	=	1	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/12/2010	Pesticide	2,4,5-TP	n/a	=	1.78	µg/L	EPA 515.3	0.02	0.2			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	2,4,5-TP	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	2,4,5-TP	n/a	=	1.73	µg/L	EPA 515.3	0.02	0.2			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	2,4,5-TP	n/a	=	1.65	µg/L	EPA 515.3	0.02	0.2			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	2,4,5-TP	n/a	=	82	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	2,4,5-TP	n/a	=	87	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	2,4,5-TP	n/a	=	5	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/12/2010	Pesticide	2,4-D	n/a	=	3.71	µg/L	EPA 515.3	0.05	0.4			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	2,4-D	n/a	=	93	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	2,4-D	n/a	=	3.69	µg/L	EPA 515.3	0.05	0.4			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	2,4-D	n/a	=	3.51	µg/L	EPA 515.3	0.05	0.4			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	2,4-D	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	2,4-D	n/a	=	92	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	2,4-D	n/a	=	5	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/12/2010	Pesticide	2,4-DB	n/a	=	6.31	µg/L	EPA 515.3	0.42	2			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	2,4-DB	n/a	=	79	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	2,4-DB	n/a	=	4.76	µg/L	EPA 515.3	0.42	2			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	2,4-DB	n/a	=	4.6	µg/L	EPA 515.3	0.42	2			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	2,4-DB	n/a	=	57	%	EPA 515.3	-88	-88	70	130	GB
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	2,4-DB	n/a	=	59	%	EPA 515.3	-88	-88	70	130	GB
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	2,4-DB	n/a	=	3	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/12/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	2.65	µg/L	EPA 515.3	0.08	1			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	66	%	EPA 515.3	-88	-88	70	130	EUM
2010/11-1	Lab	method blank	10/12/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	2.68	µg/L	EPA 515.3	0.08	1			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	2.47	µg/L	EPA 515.3	0.08	1			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	62	%	EPA 515.3	-88	-88	70	130	GB
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	67	%	EPA 515.3	-88	-88	70	130	GB
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	8	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Pesticide	4,4'-DDD	n/a	=	0.537	µg/L	EPA 608	0.015	0.25			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	4,4'-DDD	n/a	=	107	%	EPA 608	-88	-88	30	141	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	4,4'-DDD	n/a	<	0.015	µg/L	EPA 608	0.015	0.25			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	4,4'-DDD	n/a	=	0.0902	µg/L	EPA 608	0.003	0.05			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	4,4'-DDD	n/a	=	90	%	EPA 608	-88	-88	30	141	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	4,4'-DDD	n/a	=	0.0575	µg/L	EPA 608	0.003	0.05			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	4,4'-DDD	n/a	=	0.0706	µg/L	EPA 608	0.003	0.05			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	4,4'-DDD	n/a	=	71	%	EPA 608	-88	-88	31	141	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	4,4'-DDD	n/a	=	58	%	EPA 608	-88	-88	31	141	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	4,4'-DDD	n/a	=	20	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	4,4'-DDD	n/a	=	0.0501	µg/L	EPA 608	0.003	0.05			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	4,4'-DDD	n/a	=	0.0319	µg/L	EPA 608	0	0			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	4,4'-DDD	n/a	=	32	%	EPA 608	-88	-88	31	141	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	4,4'-DDD	n/a	=	50	%	EPA 608	-88	-88	31	141	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	4,4'-DDD	n/a	=	44	%	EPA 608	-88	-88	0	30	IL

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS	10/13/2010	Pesticide	4,4'-DDE	n/a	=	0.524	µg/L	EPA 608	0.012	0.25			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	4,4'-DDE	n/a	=	105	%	EPA 608	-88	-88	30	145	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	4,4'-DDE	n/a	<	0.012	µg/L	EPA 608	0.012	0.25			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	4,4'-DDE	n/a	=	0.0923	µg/L	EPA 608	0.0025	0.05			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	4,4'-DDE	n/a	=	92	%	EPA 608	-88	-88	30	145	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	4,4'-DDE	n/a	=	0.064	µg/L	EPA 608	0.0025	0.05			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	4,4'-DDE	n/a	=	0.0814	µg/L	EPA 608	0.0025	0.05			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	4,4'-DDE	n/a	=	61	%	EPA 608	-88	-88	30	145	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	4,4'-DDE	n/a	=	44	%	EPA 608	-88	-88	30	145	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	4,4'-DDE	n/a	=	24	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	4,4'-DDE	n/a	=	0.0507	µg/L	EPA 608	0.0025	0.05			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	4,4'-DDE	n/a	=	0.0323	µg/L	EPA 608	0	0			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	4,4'-DDE	n/a	=	32	%	EPA 608	-88	-88	30	145	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	4,4'-DDE	n/a	=	51	%	EPA 608	-88	-88	30	145	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	4,4'-DDE	n/a	=	44	%	EPA 608	-88	-88	0	30	IL
2010/11-1	Lab	LCS	10/13/2010	Pesticide	4,4'-DDT	n/a	=	0.634	µg/L	EPA 608	0.016	0.05			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	4,4'-DDT	n/a	=	127	%	EPA 608	-88	-88	25	160	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	4,4'-DDT	n/a	<	0.016	µg/L	EPA 608	0.016	0.05			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	4,4'-DDT	n/a	=	0.121	µg/L	EPA 608	0.0031	0.01			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	4,4'-DDT	n/a	=	121	%	EPA 608	-88	-88	25	160	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	4,4'-DDT	n/a	=	0.0758	µg/L	EPA 608	0.0031	0.01			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	4,4'-DDT	n/a	=	0.0957	µg/L	EPA 608	0.0031	0.01			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	4,4'-DDT	n/a	=	84	%	EPA 608	-88	-88	25	160	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	4,4'-DDT	n/a	=	64	%	EPA 608	-88	-88	25	160	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	4,4'-DDT	n/a	=	23	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	4,4'-DDT	n/a	=	0.0646	µg/L	EPA 608	0.0031	0.01			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	4,4'-DDT	n/a	=	0.04	µg/L	EPA 608	0.0031	0.01			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	4,4'-DDT	n/a	=	40	%	EPA 608	-88	-88	25	160	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	4,4'-DDT	n/a	=	65	%	EPA 608	-88	-88	25	160	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	4,4'-DDT	n/a	=	47	%	EPA 608	-88	-88	0	30	IL
2010/11-1	Lab	LCS	10/12/2010	Pesticide	Acifluorfen	n/a	=	1.74	µg/L	EPA 515.3	0.05	0.4			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	Acifluorfen	n/a	=	87	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	Acifluorfen	n/a	=	1.83	µg/L	EPA 515.3	0.05	0.4			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	Acifluorfen	n/a	=	1.78	µg/L	EPA 515.3	0.05	0.4			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	Acifluorfen	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	Acifluorfen	n/a	=	91	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	Acifluorfen	n/a	=	3	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Alachlor	n/a	=	7.65	µg/L	EPA 525.2	0.07	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Alachlor	n/a	=	153	%	EPA 525.2	-88	-88	58	164	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Alachlor	n/a	=	8.96	µg/L	EPA 525.2	0.07	0.1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Alachlor	n/a	=	179	%	EPA 525.2	-88	-88	58	164	EUM
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Alachlor	n/a	=	9.13	µg/L	EPA 525.2	0.07	0.1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Alachlor	n/a	=	7.55	µg/L	EPA 525.2	0.07	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Alachlor	n/a	=	151	%	EPA 525.2	-88	-88	58	177	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Alachlor	n/a	=	183	%	EPA 525.2	-88	-88	58	177	GB
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Alachlor	n/a	=	19	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Alachlor	n/a	=	6.18	µg/L	EPA 525.2	0.07	0.1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Alachlor	n/a	=	124	%	EPA 525.2	-88	-88	58	177	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Alachlor	n/a	=	7.11	µg/L	EPA 525.2	0.07	0.1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Alachlor	n/a	=	142	%	EPA 525.2	-88	-88	58	177	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Alachlor	n/a	=	14	%	EPA 525.2	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Pesticide	Aldrin	n/a	=	0.548	µg/L	EPA 608	0.0075	0.025			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	Aldrin	n/a	=	110	%	EPA 608	-88	-88	42	122	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Aldrin	n/a	<	0.0075	µg/L	EPA 608	0.0075	0.025			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	Aldrin	n/a	=	0.0872	µg/L	EPA 608	0.0015	0.005			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	Aldrin	n/a	=	87	%	EPA 608	-88	-88	42	122	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	Aldrin	n/a	=	0.051	µg/L	EPA 608	0.0015	0.005			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	Aldrin	n/a	=	0.0633	µg/L	EPA 608	0.0015	0.005			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	Aldrin	n/a	=	63	%	EPA 608	-88	-88	42	122	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	Aldrin	n/a	=	51	%	EPA 608	-88	-88	42	122	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	Aldrin	n/a	=	21	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	Aldrin	n/a	=	0.0494	µg/L	EPA 608	0.0015	0.005			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	Aldrin	n/a	=	0.0318	µg/L	EPA 608	0.0015	0.005			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	Aldrin	n/a	=	32	%	EPA 608	-88	-88	42	122	GB
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	Aldrin	n/a	=	49	%	EPA 608	-88	-88	42	122	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	Aldrin	n/a	=	43	%	EPA 608	-88	-88	0	30	IL
2010/11-1	Lab	LCS	10/13/2010	Pesticide	alpha-BHC	n/a	=	0.495	µg/L	EPA 608	0.009	0.05			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	alpha-BHC	n/a	=	99	%	EPA 608	-88	-88	37	134	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	alpha-BHC	n/a	<	0.009	µg/L	EPA 608	0.009	0.05			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	alpha-BHC	n/a	=	0.0883	µg/L	EPA 608	0.0018	0.01			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	alpha-BHC	n/a	=	88	%	EPA 608	-88	-88	37	134	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	alpha-BHC	n/a	=	0.0523	µg/L	EPA 608	0.0018	0.01			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	alpha-BHC	n/a	=	0.0662	µg/L	EPA 608	0.0018	0.01			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	alpha-BHC	n/a	=	66	%	EPA 608	-88	-88	37	134	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	alpha-BHC	n/a	=	52	%	EPA 608	-88	-88	37	134	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	alpha-BHC	n/a	=	23	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	alpha-BHC	n/a	=	0.0526	µg/L	EPA 608	0.0018	0.01			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	alpha-BHC	n/a	=	0.0344	µg/L	EPA 608	0.0018	0.01			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	alpha-BHC	n/a	=	34	%	EPA 608	-88	-88	37	134	GB
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	alpha-BHC	n/a	=	53	%	EPA 608	-88	-88	37	134	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	alpha-BHC	n/a	=	42	%	EPA 608	-88	-88	0	30	IL
2010/11-1	Lab	method blank	10/13/2010	Pesticide	alpha-Chlordane	n/a	<	0.02	µg/L	EPA 608	0.02	0.05			
2010/11-1	Lab	method blank	10/15/2010	Pesticide	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01			
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Atrazine	n/a	=	5.1	µg/L	EPA 525.2	0.047	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Atrazine	n/a	=	102	%	EPA 525.2	-88	-88	68	133	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Atrazine	n/a	=	5.71	µg/L	EPA 525.2	0.047	0.1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Atrazine	n/a	=	114	%	EPA 525.2	-88	-88	68	133	
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Atrazine	n/a	=	5.57	µg/L	EPA 525.2	0.047	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Atrazine	n/a	=	5.59	µg/L	EPA 525.2	0.047	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Atrazine	n/a	=	112	%	EPA 525.2	-88	-88	53	142	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Atrazine	n/a	=	111	%	EPA 525.2	-88	-88	53	142	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Atrazine	n/a	=	0.4	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Atrazine	n/a	=	5.25	µg/L	EPA 525.2	0.047	0.1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Atrazine	n/a	=	105	%	EPA 525.2	-88	-88	53	142	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Atrazine	n/a	=	5.81	µg/L	EPA 525.2	0.047	0.1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Atrazine	n/a	=	116	%	EPA 525.2	-88	-88	53	142	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Atrazine	n/a	=	10	%	EPA 525.2	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Azinphos methyl	n/a	=	0.0696	µg/L	EPA 525.2	0.0055	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Azinphos methyl	n/a	=	0.0404	µg/L	EPA 525.2	0.0055	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Azinphos methyl	n/a	=	40	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Azinphos methyl	n/a	=	70	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Azinphos methyl	n/a	=	53	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Azinphos methyl	n/a	=	0.0758	µg/L	EPA 525.2	0.0055	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Azinphos methyl	n/a	=	0.0697	µg/L	EPA 525.2	0.0055	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Azinphos methyl	n/a	=	139	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Azinphos methyl	n/a	=	152	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Azinphos methyl	n/a	=	8	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Azinphos methyl	n/a	=	0.116	µg/L	EPA 525.2	0.0055	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Azinphos methyl	n/a	=	116	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Azinphos methyl	n/a	=	0.0678	µg/L	EPA 525.2	0.0055	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Azinphos methyl	n/a	=	136	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			
2010/11-1	Lab	LCS	10/12/2010	Pesticide	Bentazon	n/a	=	6.85	µg/L	EPA 515.3	0.23	2			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	Bentazon	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	Bentazon	n/a	=	8.06	µg/L	EPA 515.3	0.23	2			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	Bentazon	n/a	=	6.83	µg/L	EPA 515.3	0.23	2			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	Bentazon	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	Bentazon	n/a	=	101	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	Bentazon	n/a	=	17	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Pesticide	beta-BHC	n/a	=	0.547	µg/L	EPA 608	0.016	0.025			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	beta-BHC	n/a	=	109	%	EPA 608	-88	-88	14	147	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	beta-BHC	n/a	<	0.016	µg/L	EPA 608	0.016	0.025			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	beta-BHC	n/a	=	0.0961	µg/L	EPA 608	0.0031	0.005			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	beta-BHC	n/a	=	96	%	EPA 608	-88	-88	14	147	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	beta-BHC	n/a	=	0.059	µg/L	EPA 608	0.0031	0.005			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	beta-BHC	n/a	=	0.0715	µg/L	EPA 608	0.0031	0.005			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	beta-BHC	n/a	=	71	%	EPA 608	-88	-88	17	147	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	beta-BHC	n/a	=	59	%	EPA 608	-88	-88	17	147	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	beta-BHC	n/a	=	19	%	EPA 608	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	beta-BHC	n/a	=	0.0541	µg/L	EPA 608	0.0031	0.005			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	beta-BHC	n/a	=	0.0343	µg/L	EPA 608	0.0031	0.005			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	beta-BHC	n/a	=	34	%	EPA 608	-88	-88	17	147	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	beta-BHC	n/a	=	54	%	EPA 608	-88	-88	17	147	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	beta-BHC	n/a	=	45	%	EPA 608	-88	-88	0	30	IL
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Bolstar	n/a	=	0.0938	µg/L	EPA 525.2	0.0046	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Bolstar	n/a	=	0.123	µg/L	EPA 525.2	0.0046	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Bolstar	n/a	=	123	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Bolstar	n/a	=	94	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Bolstar	n/a	=	27	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Bolstar	n/a	=	0.0423	µg/L	EPA 525.2	0.0046	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Bolstar	n/a	=	0.0398	µg/L	EPA 525.2	0.0046	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Bolstar	n/a	=	80	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Bolstar	n/a	=	85	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Bolstar	n/a	=	6	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Bolstar	n/a	=	0.0886	µg/L	EPA 525.2	0.0046	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Bolstar	n/a	=	89	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Bolstar	n/a	=	0.0386	µg/L	EPA 525.2	0.0046	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Bolstar	n/a	=	77	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Bromacil	n/a	=	5.03	µg/L	EPA 525.2	0.9	1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Bromacil	n/a	=	101	%	EPA 525.2	-88	-88	43	177	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Bromacil	n/a	=	7.37	µg/L	EPA 525.2	0.9	1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Bromacil	n/a	=	147	%	EPA 525.2	-88	-88	43	177	
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Bromacil	n/a	=	8.01	µg/L	EPA 525.2	0.9	1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Bromacil	n/a	=	7	µg/L	EPA 525.2	0.9	1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Bromacil	n/a	=	140	%	EPA 525.2	-88	-88	71	182	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Bromacil	n/a	=	160	%	EPA 525.2	-88	-88	71	182	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Bromacil	n/a	=	13	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Bromacil	n/a	=	5.91	µg/L	EPA 525.2	0.9	1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Bromacil	n/a	=	118	%	EPA 525.2	-88	-88	71	182	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Bromacil	n/a	=	6.3	µg/L	EPA 525.2	0.9	1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Bromacil	n/a	=	126	%	EPA 525.2	-88	-88	71	182	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Bromacil	n/a	=	6	%	EPA 525.2	-88	-88	0	30	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Butachlor	n/a	=	8.69	µg/L	EPA 525.2	0.1	0.2			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Butachlor	n/a	=	174	%	EPA 525.2	-88	-88	55	178	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Butachlor	n/a	=	11.6	µg/L	EPA 525.2	0.1	0.2			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Butachlor	n/a	=	232	%	EPA 525.2	-88	-88	55	178	EUM
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Butachlor	n/a	=	10.5	µg/L	EPA 525.2	0.1	0.2			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Butachlor	n/a	=	8.19	µg/L	EPA 525.2	0.1	0.2			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Butachlor	n/a	=	164	%	EPA 525.2	-88	-88	67	181	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Butachlor	n/a	=	210	%	EPA 525.2	-88	-88	67	181	GB

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Butachlor	n/a	=	25	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Butachlor	n/a	=	5.54	µg/L	EPA 525.2	0.1	0.2			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Butachlor	n/a	=	111	%	EPA 525.2	-88	-88	67	181	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Butachlor	n/a	=	5.69	µg/L	EPA 525.2	0.1	0.2			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Butachlor	n/a	=	114	%	EPA 525.2	-88	-88	67	181	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Butachlor	n/a	=	3	%	EPA 525.2	-88	-88	0	30	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Captan	n/a	=	3.58	µg/L	EPA 525.2	0.86	1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Captan	n/a	=	72	%	EPA 525.2	-88	-88	20	215	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Captan	n/a	=	4.15	µg/L	EPA 525.2	0.86	1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Captan	n/a	=	83	%	EPA 525.2	-88	-88	20	215	
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Captan	n/a	=	5.3	µg/L	EPA 525.2	0.86	1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Captan	n/a	=	4.36	µg/L	EPA 525.2	0.86	1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Captan	n/a	=	87	%	EPA 525.2	-88	-88	45	182	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Captan	n/a	=	106	%	EPA 525.2	-88	-88	45	182	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Captan	n/a	=	19	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Captan	n/a	=	4.33	µg/L	EPA 525.2	0.86	1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Captan	n/a	=	87	%	EPA 525.2	-88	-88	45	182	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Captan	n/a	=	4.35	µg/L	EPA 525.2	0.86	1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Captan	n/a	=	87	%	EPA 525.2	-88	-88	45	182	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Captan	n/a	=	0.5	%	EPA 525.2	-88	-88	0	30	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Chlordane (technical)	n/a	<	0.4	µg/L	EPA 608	0.4	0.5			
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1			
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Chloropropham	n/a	=	4.15	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Chloropropham	n/a	=	83	%	EPA 525.2	-88	-88	74	133	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Chloropropham	n/a	=	4.34	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Chloropropham	n/a	=	87	%	EPA 525.2	-88	-88	74	133	
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Chloropropham	n/a	=	4.88	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Chloropropham	n/a	=	5.23	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Chloropropham	n/a	=	105	%	EPA 525.2	-88	-88	76	137	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Chloropropham	n/a	=	98	%	EPA 525.2	-88	-88	76	137	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Chloropropham	n/a	=	7	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Chloropropham	n/a	=	5.03	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Chloropropham	n/a	=	101	%	EPA 525.2	-88	-88	76	137	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Chloropropham	n/a	=	5.2	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Chloropropham	n/a	=	104	%	EPA 525.2	-88	-88	76	137	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Chloropropham	n/a	=	3	%	EPA 525.2	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Chlorpyrifos	n/a	=	0.12	µg/L	EPA 525.2	0.0069	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Chlorpyrifos	n/a	=	0.196	µg/L	EPA 525.2	0.0069	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Chlorpyrifos	n/a	=	196	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Chlorpyrifos	n/a	=	120	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Chlorpyrifos	n/a	=	48	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Chlorpyrifos	n/a	=	0.0645	µg/L	EPA 525.2	0.0069	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Chlorpyrifos	n/a	=	0.0599	µg/L	EPA 525.2	0.0069	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Chlorpyrifos	n/a	=	120	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Chlorpyrifos	n/a	=	129	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Chlorpyrifos	n/a	=	7	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Chlorpyrifos	n/a	=	0.128	µg/L	EPA 525.2	0.0069	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Chlorpyrifos	n/a	=	128	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Chlorpyrifos	n/a	=	0.0625	µg/L	EPA 525.2	0.0069	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Chlorpyrifos	n/a	=	125	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Coumaphos	n/a	=	0.265	µg/L	EPA 525.2	0.0051	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Coumaphos	n/a	=	0.451	µg/L	EPA 525.2	0.0051	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Coumaphos	n/a	=	451	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Coumaphos	n/a	=	265	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Coumaphos	n/a	=	52	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Coumaphos	n/a	=	0.0658	µg/L	EPA 525.2	0.0051	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Coumaphos	n/a	=	0.0646	µg/L	EPA 525.2	0.0051	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Coumaphos	n/a	=	129	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Coumaphos	n/a	=	132	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Coumaphos	n/a	=	2	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Coumaphos	n/a	=	0.165	µg/L	EPA 525.2	0.0051	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Coumaphos	n/a	=	165	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Coumaphos	n/a	=	0.064	µg/L	EPA 525.2	0.0051	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Coumaphos	n/a	=	128	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Cyanazine	n/a	=	5.17	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Cyanazine	n/a	=	103	%	EPA 525.2	-88	-88	69	131	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Cyanazine	n/a	=	6.16	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Cyanazine	n/a	=	123	%	EPA 525.2	-88	-88	69	131	
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Cyanazine	n/a	=	2.65	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Cyanazine	n/a	=	2.44	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Cyanazine	n/a	=	49	%	EPA 525.2	-88	-88	26	145	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Cyanazine	n/a	=	53	%	EPA 525.2	-88	-88	26	145	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Cyanazine	n/a	=	8	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Cyanazine	n/a	=	1.7	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Cyanazine	n/a	=	34	%	EPA 525.2	-88	-88	26	145	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Cyanazine	n/a	=	2.2	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Cyanazine	n/a	=	44	%	EPA 525.2	-88	-88	26	145	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Cyanazine	n/a	=	26	%	EPA 525.2	-88	-88	0	30	
2010/11-1	Lab	LCS	10/12/2010	Pesticide	Dalapon	n/a	=	3.66	µg/L	EPA 515.3	0.04	0.4			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	Dalapon	n/a	=	92	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	Dalapon	n/a	=	3.99	µg/L	EPA 515.3	0.04	0.4			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	Dalapon	n/a	=	3.57	µg/L	EPA 515.3	0.04	0.4			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	Dalapon	n/a	=	89	%	EPA 515.3	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	Dalapon	n/a	=	100	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	Dalapon	n/a	=	11	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/12/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.8	µg/L	EPA 515.3	0.02	0.1			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	DCPA (Dacthal)	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.9	µg/L	EPA 515.3	0.02	0.1			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.83	µg/L	EPA 515.3	0.02	0.1			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	DCPA (Dacthal)	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	DCPA (Dacthal)	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	DCPA (Dacthal)	n/a	=	3	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Pesticide	delta-BHC	n/a	=	0.496	µg/L	EPA 608	0.012	0.025			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	delta-BHC	n/a	=	99	%	EPA 608	-88	-88	19	140	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	delta-BHC	n/a	<	0.012	µg/L	EPA 608	0.012	0.025			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	delta-BHC	n/a	=	0.0906	µg/L	EPA 608	0.0025	0.005			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	delta-BHC	n/a	=	91	%	EPA 608	-88	-88	19	140	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	delta-BHC	n/a	=	0.063	µg/L	EPA 608	0.0025	0.005			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	delta-BHC	n/a	=	0.0783	µg/L	EPA 608	0.0025	0.005			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	delta-BHC	n/a	=	78	%	EPA 608	-88	-88	19	140	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	delta-BHC	n/a	=	63	%	EPA 608	-88	-88	19	140	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	delta-BHC	n/a	=	22	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	delta-BHC	n/a	=	0.0561	µg/L	EPA 608	0.0025	0.005			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	delta-BHC	n/a	=	0.0375	µg/L	EPA 608	0.0025	0.005			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	delta-BHC	n/a	=	38	%	EPA 608	-88	-88	19	140	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	delta-BHC	n/a	=	56	%	EPA 608	-88	-88	19	140	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	delta-BHC	n/a	=	40	%	EPA 608	-88	-88	0	30	IL
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Demeton-O	n/a	=	0.0519	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Demeton-O	n/a	=	0.0765	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Demeton-O	n/a	=	76	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Demeton-O	n/a	=	52	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Demeton-O	n/a	=	38	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Demeton-O	n/a	=	0.0749	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Demeton-O	n/a	=	0.0759	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Demeton-O	n/a	=	152	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Demeton-O	n/a	=	150	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Demeton-O	n/a	=	1	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Demeton-O	n/a	=	0.0633	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Demeton-O	n/a	=	63	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Demeton-O	n/a	=	0.0733	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Demeton-O	n/a	=	147	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Demeton-S	n/a	=	0.0314	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Demeton-S	n/a	=	0.141	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Demeton-S	n/a	=	141	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Demeton-S	n/a	=	31	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Demeton-S	n/a	=	127	%	EPA 525.2	-88	-88	0	25	IL

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Demeton-S	n/a	=	0.0749	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Demeton-S	n/a	=	0.0759	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Demeton-S	n/a	=	152	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Demeton-S	n/a	=	150	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Demeton-S	n/a	=	1	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Demeton-S	n/a	=	0.0527	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Demeton-S	n/a	=	53	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Demeton-S	n/a	=	0.0733	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Demeton-S	n/a	=	147	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Diazinon	n/a	=	0.0449	µg/L	EPA 525.2	0.0052	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Diazinon	n/a	=	0.0684	µg/L	EPA 525.2	0.0052	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Diazinon	n/a	=	68	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Diazinon	n/a	=	45	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Diazinon	n/a	=	41	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Diazinon	n/a	=	0.0733	µg/L	EPA 525.2	0.0052	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Diazinon	n/a	=	0.0694	µg/L	EPA 525.2	0.0052	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Diazinon	n/a	=	123	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Diazinon	n/a	=	131	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Diazinon	n/a	=	6	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Diazinon	n/a	=	0.0616	µg/L	EPA 525.2	0.0052	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Diazinon	n/a	=	62	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Diazinon	n/a	=	0.0698	µg/L	EPA 525.2	0.0052	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Diazinon	n/a	=	140	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			
2010/11-1	Lab	LCS	10/12/2010	Pesticide	Dicamba	n/a	=	3.47	µg/L	EPA 515.3	0.08	0.6			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	Dicamba	n/a	=	87	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	Dicamba	n/a	=	3.5	µg/L	EPA 515.3	0.08	0.6			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	Dicamba	n/a	=	3.32	µg/L	EPA 515.3	0.08	0.6			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	Dicamba	n/a	=	83	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	Dicamba	n/a	=	87	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	Dicamba	n/a	=	5	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/12/2010	Pesticide	Dichlorprop	n/a	=	3.87	µg/L	EPA 515.3	0.06	0.3			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	Dichlorprop	n/a	=	97	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	Dichlorprop	n/a	=	3.18	µg/L	EPA 515.3	0.06	0.3			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	Dichlorprop	n/a	=	3.53	µg/L	EPA 515.3	0.06	0.3			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	Dichlorprop	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	Dichlorprop	n/a	=	80	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	Dichlorprop	n/a	=	10	%	EPA 515.3	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Dichlorvos	n/a	=	0.0444	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Dichlorvos	n/a	=	0.0854	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Dichlorvos	n/a	=	85	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Dichlorvos	n/a	=	44	%	EPA 525.2	-88	-88	50	150	GB

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Dichlorvos	n/a	=	63	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Dichlorvos	n/a	=	0.0499	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Dichlorvos	n/a	=	0.0502	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Dichlorvos	n/a	=	100	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Dichlorvos	n/a	=	100	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Dichlorvos	n/a	=	0.5	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Dichlorvos	n/a	=	0.0852	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Dichlorvos	n/a	=	85	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Dichlorvos	n/a	=	0.05	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Dichlorvos	n/a	=	100	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	Lab	LCS	10/13/2010	Pesticide	Dieldrin	n/a	=	0.589	µg/L	EPA 608	0.01	0.05			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	Dieldrin	n/a	=	118	%	EPA 608	-88	-88	36	146	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Dieldrin	n/a	<	0.01	µg/L	EPA 608	0.01	0.05			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	Dieldrin	n/a	=	0.0978	µg/L	EPA 608	0.0021	0.01			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	Dieldrin	n/a	=	98	%	EPA 608	-88	-88	36	146	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	Dieldrin	n/a	=	0.0629	µg/L	EPA 608	0.0021	0.01			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	Dieldrin	n/a	=	0.0768	µg/L	EPA 608	0.0021	0.01			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	Dieldrin	n/a	=	77	%	EPA 608	-88	-88	36	146	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	Dieldrin	n/a	=	63	%	EPA 608	-88	-88	36	146	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	Dieldrin	n/a	=	20	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	Dieldrin	n/a	=	0.057	µg/L	EPA 608	0.0021	0.01			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	Dieldrin	n/a	=	0.0363	µg/L	EPA 608	0.0021	0.01			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	Dieldrin	n/a	=	36	%	EPA 608	-88	-88	36	146	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	Dieldrin	n/a	=	57	%	EPA 608	-88	-88	36	146	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	Dieldrin	n/a	=	44	%	EPA 608	-88	-88	0	30	IL
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Dimethoate	n/a	=	0.0692	µg/L	EPA 525.2	0.0062	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Dimethoate	n/a	=	0.109	µg/L	EPA 525.2	0.0062	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Dimethoate	n/a	=	109	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Dimethoate	n/a	=	69	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Dimethoate	n/a	=	44	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Dimethoate	n/a	=	0.0768	µg/L	EPA 525.2	0.0062	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Dimethoate	n/a	=	0.0687	µg/L	EPA 525.2	0.0062	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Dimethoate	n/a	=	137	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Dimethoate	n/a	=	154	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Dimethoate	n/a	=	11	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Dimethoate	n/a	=	0.066	µg/L	EPA 525.2	0.0062	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Dimethoate	n/a	=	66	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Dimethoate	n/a	=	0.0693	µg/L	EPA 525.2	0.0062	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Dimethoate	n/a	=	139	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			
2010/11-1	Lab	LCS	10/12/2010	Pesticide	Dinoseb	n/a	=	1.78	µg/L	EPA 515.3	0.05	0.4			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	Dinoseb	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	Dinoseb	n/a	=	1.82	µg/L	EPA 515.3	0.05	0.4			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	Dinoseb	n/a	=	1.71	µg/L	EPA 515.3	0.05	0.4			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	Dinoseb	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	Dinoseb	n/a	=	91	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	Dinoseb	n/a	=	6	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Diphenamid	n/a	=	5.22	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Diphenamid	n/a	=	104	%	EPA 525.2	-88	-88	82	144	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Diphenamid	n/a	=	5.65	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Diphenamid	n/a	=	113	%	EPA 525.2	-88	-88	82	144	
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Diphenamid	n/a	=	6.38	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Diphenamid	n/a	=	5.99	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Diphenamid	n/a	=	120	%	EPA 525.2	-88	-88	86	130	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Diphenamid	n/a	=	128	%	EPA 525.2	-88	-88	86	130	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Diphenamid	n/a	=	6	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Diphenamid	n/a	=	5.65	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Diphenamid	n/a	=	113	%	EPA 525.2	-88	-88	86	130	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Diphenamid	n/a	=	6.22	µg/L	EPA 525.2	0.02	0.1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Diphenamid	n/a	=	124	%	EPA 525.2	-88	-88	86	130	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Diphenamid	n/a	=	10	%	EPA 525.2	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Disulfoton	n/a	=	0.0441	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Disulfoton	n/a	=	0.0563	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Disulfoton	n/a	=	56	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Disulfoton	n/a	=	44	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Disulfoton	n/a	=	24	%	EPA 525.2	-88	-88	0	25	
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Disulfoton	n/a	=	0.0447	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Disulfoton	n/a	=	0.0426	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Disulfoton	n/a	=	85	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Disulfoton	n/a	=	89	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Disulfoton	n/a	=	5	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Disulfoton	n/a	=	0.0735	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Disulfoton	n/a	=	74	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Disulfoton	n/a	=	0.0405	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Disulfoton	n/a	=	81	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-1	Lab	LCS	10/13/2010	Pesticide	Endosulfan I	n/a	=	0.535	µg/L	EPA 608	0.0085	0.1			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	Endosulfan I	n/a	=	107	%	EPA 608	-88	-88	45	153	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Endosulfan I	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.1			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	Endosulfan I	n/a	=	0.0898	µg/L	EPA 608	0.0017	0.02			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	Endosulfan I	n/a	=	90	%	EPA 608	-88	-88	45	153	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	Endosulfan I	n/a	=	0.079	µg/L	EPA 608	0.0017	0.02			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	Endosulfan I	n/a	=	0.102	µg/L	EPA 608	0.0017	0.02			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	Endosulfan I	n/a	=	102	%	EPA 608	-88	-88	45	153	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	Endosulfan I	n/a	=	79	%	EPA 608	-88	-88	45	153	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	Endosulfan I	n/a	=	25	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	Endosulfan I	n/a	=	0.0536	µg/L	EPA 608	0.0017	0.02			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	Endosulfan I	n/a	=	0.0342	µg/L	EPA 608	0.0017	0.02			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	Endosulfan I	n/a	=	34	%	EPA 608	-88	-88	45	153	GB
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	Endosulfan I	n/a	=	54	%	EPA 608	-88	-88	45	153	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	Endosulfan I	n/a	=	44	%	EPA 608	-88	-88	0	30	IL
2010/11-1	Lab	LCS	10/13/2010	Pesticide	Endosulfan II	n/a	=	0.53	µg/L	EPA 608	0.0095	0.05			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	Endosulfan II	n/a	=	106	%	EPA 608	-88	-88	2	202	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Endosulfan II	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	Endosulfan II	n/a	=	0.091	µg/L	EPA 608	0.0019	0.01			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	Endosulfan II	n/a	=	91	%	EPA 608	-88	-88	2	202	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	Endosulfan II	n/a	=	0.0601	µg/L	EPA 608	0.0019	0.01			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	Endosulfan II	n/a	=	0.0738	µg/L	EPA 608	0.0019	0.01			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	Endosulfan II	n/a	=	74	%	EPA 608	-88	-88	2	202	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	Endosulfan II	n/a	=	60	%	EPA 608	-88	-88	2	202	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	Endosulfan II	n/a	=	20	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	Endosulfan II	n/a	=	0.0521	µg/L	EPA 608	0.0019	0.01			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	Endosulfan II	n/a	=	0.0341	µg/L	EPA 608	0.0019	0.01			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	Endosulfan II	n/a	=	34	%	EPA 608	-88	-88	2	202	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	Endosulfan II	n/a	=	52	%	EPA 608	-88	-88	2	202	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	Endosulfan II	n/a	=	42	%	EPA 608	-88	-88	0	30	IL
2010/11-1	Lab	LCS	10/13/2010	Pesticide	Endosulfan sulfate	n/a	=	0.569	µg/L	EPA 608	0.04	0.25			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	Endosulfan sulfate	n/a	=	114	%	EPA 608	-88	-88	26	144	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Endosulfan sulfate	n/a	<	0.04	µg/L	EPA 608	0.04	0.25			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	Endosulfan sulfate	n/a	=	0.086	µg/L	EPA 608	0.008	0.05			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	Endosulfan sulfate	n/a	=	86	%	EPA 608	-88	-88	26	144	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	Endosulfan sulfate	n/a	=	0.0442	µg/L	EPA 608	0.008	0.04			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	Endosulfan sulfate	n/a	=	0.0398	µg/L	EPA 608	0.008	0.03			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	Endosulfan sulfate	n/a	=	40	%	EPA 608	-88	-88	26	144	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	Endosulfan sulfate	n/a	=	44	%	EPA 608	-88	-88	26	144	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	Endosulfan sulfate	n/a	=	10	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	Endosulfan sulfate	n/a	=	0.0273	µg/L	EPA 608	0	0			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	Endosulfan sulfate	n/a	=	0.0256	µg/L	EPA 608	0.008	0.02			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	Endosulfan sulfate	n/a	=	26	%	EPA 608	-88	-88	26	144	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	Endosulfan sulfate	n/a	=	27	%	EPA 608	-88	-88	26	144	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	Endosulfan sulfate	n/a	=	6	%	EPA 608	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Pesticide	Endrin	n/a	=	0.637	µg/L	EPA 608	0.014	0.05			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	Endrin	n/a	=	127	%	EPA 608	-88	-88	30	147	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Endrin	n/a	<	0.014	µg/L	EPA 608	0.014	0.05			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	Endrin	n/a	=	0.109	µg/L	EPA 608	0.0028	0.01			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	Endrin	n/a	=	109	%	EPA 608	-88	-88	30	147	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	Endrin	n/a	=	0.0856	µg/L	EPA 608	0.0028	0.01			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	Endrin	n/a	=	0.108	µg/L	EPA 608	0.0028	0.01			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	Endrin	n/a	=	108	%	EPA 608	-88	-88	30	147	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	Endrin	n/a	=	86	%	EPA 608	-88	-88	30	147	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	Endrin	n/a	=	23	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	Endrin	n/a	=	0.0676	µg/L	EPA 608	0.0028	0.01			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	Endrin	n/a	=	0.0416	µg/L	EPA 608	0.0028	0.01			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	Endrin	n/a	=	42	%	EPA 608	-88	-88	30	147	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	Endrin	n/a	=	68	%	EPA 608	-88	-88	30	147	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	Endrin	n/a	=	48	%	EPA 608	-88	-88	0	30	IL
2010/11-1	Lab	LCS	10/13/2010	Pesticide	Endrin aldehyde	n/a	=	0.549	µg/L	EPA 608	0.015	0.05			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	Endrin aldehyde	n/a	=	110	%	EPA 608	-88	-88	41	203	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Endrin aldehyde	n/a	<	0.015	µg/L	EPA 608	0.015	0.05			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	Endrin aldehyde	n/a	=	0.0868	µg/L	EPA 608	0.003	0.01			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	Endrin aldehyde	n/a	=	87	%	EPA 608	-88	-88	41	203	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	Endrin aldehyde	n/a	=	0.0369	µg/L	EPA 608	0.003	0.01			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	Endrin aldehyde	n/a	=	0.0438	µg/L	EPA 608	0.003	0.01			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	Endrin aldehyde	n/a	=	44	%	EPA 608	-88	-88	30	180	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	Endrin aldehyde	n/a	=	37	%	EPA 608	-88	-88	30	180	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	Endrin aldehyde	n/a	=	17	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	Endrin aldehyde	n/a	=	0.0282	µg/L	EPA 608	0.003	0.01			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	Endrin aldehyde	n/a	=	0.022	µg/L	EPA 608	0.003	0.01			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	Endrin aldehyde	n/a	=	22	%	EPA 608	-88	-88	30	180	GB
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	Endrin aldehyde	n/a	=	28	%	EPA 608	-88	-88	30	180	GB
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	Endrin aldehyde	n/a	=	25	%	EPA 608	-88	-88	0	30	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	EPTC	n/a	=	4.4	µg/L	EPA 525.2	0.23	1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	EPTC	n/a	=	88	%	EPA 525.2	-88	-88	75	110	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	EPTC	n/a	=	4.36	µg/L	EPA 525.2	0.23	1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	EPTC	n/a	=	87	%	EPA 525.2	-88	-88	75	110	
2010/11-1	Lab	method blank	10/26/2010	Pesticide	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	EPTC	n/a	=	4.55	µg/L	EPA 525.2	0.23	1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	EPTC	n/a	=	4.48	µg/L	EPA 525.2	0.23	1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	EPTC	n/a	=	90	%	EPA 525.2	-88	-88	67	119	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	EPTC	n/a	=	91	%	EPA 525.2	-88	-88	67	119	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	EPTC	n/a	=	2	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	EPTC	n/a	=	4.52	µg/L	EPA 525.2	0.23	1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	EPTC	n/a	=	90	%	EPA 525.2	-88	-88	67	119	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	EPTC	n/a	=	4.51	µg/L	EPA 525.2	0.23	1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	EPTC	n/a	=	90	%	EPA 525.2	-88	-88	67	119	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	EPTC	n/a	=	0.2	%	EPA 525.2	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Ethoprop	n/a	=	0.0646	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Ethoprop	n/a	=	0.131	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Ethoprop	n/a	=	131	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Ethoprop	n/a	=	65	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Ethoprop	n/a	=	68	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Ethoprop	n/a	=	0.0607	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Ethoprop	n/a	=	0.058	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Ethoprop	n/a	=	116	%	EPA 525.2	-88	-88	50	150	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Ethoprop	n/a	=	121	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Ethoprop	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Ethoprop	n/a	=	0.103	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Ethoprop	n/a	=	103	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Ethoprop	n/a	=	0.058	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Ethoprop	n/a	=	116	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Ethyl parathion	n/a	=	0.075	µg/L	EPA 525.2	0.0054	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Ethyl parathion	n/a	=	0.108	µg/L	EPA 525.2	0.0054	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Ethyl parathion	n/a	=	108	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Ethyl parathion	n/a	=	75	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Ethyl parathion	n/a	=	36	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Ethyl parathion	n/a	=	0.107	µg/L	EPA 525.2	0.0054	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Ethyl parathion	n/a	=	0.0979	µg/L	EPA 525.2	0.0054	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Ethyl parathion	n/a	=	196	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Ethyl parathion	n/a	=	214	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Ethyl parathion	n/a	=	9	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Ethyl parathion	n/a	=	0.0656	µg/L	EPA 525.2	0.0054	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Ethyl parathion	n/a	=	66	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Ethyl parathion	n/a	=	0.0966	µg/L	EPA 525.2	0.0054	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Ethyl parathion	n/a	=	193	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Fensulfothion	n/a	=	0.208	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Fensulfothion	n/a	=	0.269	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Fensulfothion	n/a	=	269	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Fensulfothion	n/a	=	208	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Fensulfothion	n/a	=	26	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Fensulfothion	n/a	=	0.0627	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Fensulfothion	n/a	=	0.0592	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Fensulfothion	n/a	=	118	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Fensulfothion	n/a	=	125	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Fensulfothion	n/a	=	6	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Fensulfothion	n/a	=	0.165	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Fensulfothion	n/a	=	165	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Fensulfothion	n/a	=	0.055	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Fensulfothion	n/a	=	110	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Fenthion	n/a	=	0.0731	µg/L	EPA 525.2	0.0038	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Fenthion	n/a	=	0.134	µg/L	EPA 525.2	0.0038	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Fenthion	n/a	=	134	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Fenthion	n/a	=	73	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Fenthion	n/a	=	59	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Fenthion	n/a	=	0.0733	µg/L	EPA 525.2	0.0038	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Fenthion	n/a	=	0.0669	µg/L	EPA 525.2	0.0038	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Fenthion	n/a	=	134	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Fenthion	n/a	=	147	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Fenthion	n/a	=	9	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Fenthion	n/a	=	0.107	µg/L	EPA 525.2	0.0038	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Fenthion	n/a	=	107	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Fenthion	n/a	=	0.0671	µg/L	EPA 525.2	0.0038	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Fenthion	n/a	=	134	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			
2010/11-1	Lab	LCS	10/13/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.565	µg/L	EPA 608	0.01	0.1			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	113	%	EPA 608	-88	-88	32	127	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	gamma-BHC (Lindane)	n/a	<	0.01	µg/L	EPA 608	0.01	0.1			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0906	µg/L	EPA 608	0.0021	0.02			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	91	%	EPA 608	-88	-88	32	127	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0583	µg/L	EPA 608	0.0021	0.02			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0726	µg/L	EPA 608	0.0021	0.02			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	73	%	EPA 608	-88	-88	32	127	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	58	%	EPA 608	-88	-88	32	127	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	22	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.058	µg/L	EPA 608	0.0021	0.02			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0371	µg/L	EPA 608	0.0021	0.02			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	37	%	EPA 608	-88	-88	32	127	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	58	%	EPA 608	-88	-88	32	127	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	44	%	EPA 608	-88	-88	0	30	IL
2010/11-1	Lab	method blank	10/13/2010	Pesticide	gamma-Chlordane	n/a	<	0.022	µg/L	EPA 608	0.022	0.05			
2010/11-1	Lab	method blank	10/15/2010	Pesticide	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01			
2010/11-1	000NONPJ	matrix spike	10/8/2010	Pesticide	Glyphosate	n/a	=	32	µg/L	EPA 547	1.8	5			
2010/11-1	000NONPJ	matrix spike	10/8/2010	Pesticide	Glyphosate	n/a	=	31.4	µg/L	EPA 547	1.8	5			
2010/11-1	000NONPJ	matrix spike dup	10/8/2010	Pesticide	Glyphosate	n/a	=	28.6	µg/L	EPA 547	1.8	5			
2010/11-1	000NONPJ	matrix spike dup	10/8/2010	Pesticide	Glyphosate	n/a	=	31.9	µg/L	EPA 547	1.8	5			
2010/11-1	000NONPJ	matrix spike dup, rec	10/8/2010	Pesticide	Glyphosate	n/a	=	127	%	EPA 547	-88	-88	68	134	
2010/11-1	000NONPJ	matrix spike dup, rec	10/8/2010	Pesticide	Glyphosate	n/a	=	114	%	EPA 547	-88	-88	68	134	
2010/11-1	000NONPJ	matrix spike, rec	10/8/2010	Pesticide	Glyphosate	n/a	=	128	%	EPA 547	-88	-88	68	134	
2010/11-1	000NONPJ	matrix spike, rec	10/8/2010	Pesticide	Glyphosate	n/a	=	125	%	EPA 547	-88	-88	68	134	
2010/11-1	000NONPJ	matrix spike, RPD	10/8/2010	Pesticide	Glyphosate	n/a	=	9	%	EPA 547	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike, RPD	10/8/2010	Pesticide	Glyphosate	n/a	=	0.4	%	EPA 547	-88	-88	0	30	
2010/11-1	Lab	LCS	10/8/2010	Pesticide	Glyphosate	n/a	=	28.4	µg/L	EPA 547	1.8	5			
2010/11-1	Lab	LCS	10/8/2010	Pesticide	Glyphosate	n/a	=	27.3	µg/L	EPA 547	1.8	5			
2010/11-1	Lab	LCS, rec	10/8/2010	Pesticide	Glyphosate	n/a	=	109	%	EPA 547	-88	-88	71	137	
2010/11-1	Lab	LCS, rec	10/8/2010	Pesticide	Glyphosate	n/a	=	113	%	EPA 547	-88	-88	71	137	
2010/11-1	Lab	method blank	10/8/2010	Pesticide	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5			
2010/11-1	Lab	method blank	10/8/2010	Pesticide	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5			
2010/11-1	ME-CC	matrix spike	10/8/2010	Pesticide	Glyphosate	n/a	=	49.3	µg/L	EPA 547	1.8	5			
2010/11-1	ME-CC	matrix spike dup	10/8/2010	Pesticide	Glyphosate	n/a	=	50.9	µg/L	EPA 547	1.8	5			
2010/11-1	ME-CC	matrix spike dup, rec	10/8/2010	Pesticide	Glyphosate	n/a	=	125	%	EPA 547	-88	-88	68	134	
2010/11-1	ME-CC	matrix spike, rec	10/8/2010	Pesticide	Glyphosate	n/a	=	119	%	EPA 547	-88	-88	68	134	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	ME-CC	matrix spike, RPD	10/8/2010	Pesticide	Glyphosate	n/a	=	3	%	EPA 547	-88	-88	0	30	
2010/11-1	Lab	LCS	10/13/2010	Pesticide	Heptachlor	n/a	=	0.545	µg/L	EPA 608	0.0085	0.05			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	Heptachlor	n/a	=	109	%	EPA 608	-88	-88	34	111	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Heptachlor	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.05			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	Heptachlor	n/a	=	0.0976	µg/L	EPA 608	0.0017	0.01			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	Heptachlor	n/a	=	98	%	EPA 608	-88	-88	34	111	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	Heptachlor	n/a	=	0.0597	µg/L	EPA 608	0.0017	0.01			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	Heptachlor	n/a	=	0.075	µg/L	EPA 608	0.0017	0.01			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	Heptachlor	n/a	=	75	%	EPA 608	-88	-88	34	111	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	Heptachlor	n/a	=	60	%	EPA 608	-88	-88	34	111	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	Heptachlor	n/a	=	23	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	Heptachlor	n/a	=	0.0574	µg/L	EPA 608	0.0017	0.01			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	Heptachlor	n/a	=	0.0367	µg/L	EPA 608	0.0017	0.01			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	Heptachlor	n/a	=	37	%	EPA 608	-88	-88	34	111	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	Heptachlor	n/a	=	57	%	EPA 608	-88	-88	34	111	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	Heptachlor	n/a	=	44	%	EPA 608	-88	-88	0	30	IL
2010/11-1	Lab	LCS	10/13/2010	Pesticide	Heptachlor epoxide	n/a	=	0.569	µg/L	EPA 608	0.0095	0.05			
2010/11-1	Lab	LCS, rec	10/13/2010	Pesticide	Heptachlor epoxide	n/a	=	114	%	EPA 608	-88	-88	37	142	
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Heptachlor epoxide	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			
2010/11-1	Lab	LCS	10/15/2010	Pesticide	Heptachlor epoxide	n/a	=	0.0961	µg/L	EPA 608	0.0019	0.01			
2010/11-1	Lab	LCS, rec	10/15/2010	Pesticide	Heptachlor epoxide	n/a	=	96	%	EPA 608	-88	-88	37	142	
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01			
2010/11-1	MO-MPK	matrix spike	10/16/2010	Pesticide	Heptachlor epoxide	n/a	=	0.068	µg/L	EPA 608	0.0019	0.01			
2010/11-1	MO-MPK	matrix spike dup	10/16/2010	Pesticide	Heptachlor epoxide	n/a	=	0.0847	µg/L	EPA 608	0.0019	0.01			
2010/11-1	MO-MPK	matrix spike dup, rec	10/16/2010	Pesticide	Heptachlor epoxide	n/a	=	85	%	EPA 608	-88	-88	37	142	
2010/11-1	MO-MPK	matrix spike, rec	10/16/2010	Pesticide	Heptachlor epoxide	n/a	=	68	%	EPA 608	-88	-88	37	142	
2010/11-1	MO-MPK	matrix spike, RPD	10/16/2010	Pesticide	Heptachlor epoxide	n/a	=	22	%	EPA 608	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/19/2010	Pesticide	Heptachlor epoxide	n/a	=	0.0582	µg/L	EPA 608	0.0019	0.01			
2010/11-1	MO-OJA	matrix spike dup	10/19/2010	Pesticide	Heptachlor epoxide	n/a	=	0.037	µg/L	EPA 608	0.0019	0.01			
2010/11-1	MO-OJA	matrix spike dup, rec	10/19/2010	Pesticide	Heptachlor epoxide	n/a	=	37	%	EPA 608	-88	-88	37	142	
2010/11-1	MO-OJA	matrix spike, rec	10/19/2010	Pesticide	Heptachlor epoxide	n/a	=	58	%	EPA 608	-88	-88	37	142	
2010/11-1	MO-OJA	matrix spike, RPD	10/19/2010	Pesticide	Heptachlor epoxide	n/a	=	45	%	EPA 608	-88	-88	0	30	IL
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Malathion	n/a	=	0.147	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Malathion	n/a	=	0.195	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Malathion	n/a	=	195	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Malathion	n/a	=	147	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Malathion	n/a	=	28	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Malathion	n/a	=	0.0818	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Malathion	n/a	=	0.0734	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Malathion	n/a	=	65	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Malathion	n/a	=	82	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Malathion	n/a	=	11	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Malathion	n/a	=	0.0965	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Malathion	n/a	=	96	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Malathion	n/a	=	0.0745	µg/L	EPA 525.2	0.0076	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Malathion	n/a	=	149	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Merphos	n/a	=	0.119	µg/L	EPA 525.2	0.0058	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Merphos	n/a	=	0.173	µg/L	EPA 525.2	0.0058	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Merphos	n/a	=	173	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Merphos	n/a	=	119	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Merphos	n/a	=	37	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Merphos	n/a	=	0.0659	µg/L	EPA 525.2	0.0058	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Merphos	n/a	=	0.0653	µg/L	EPA 525.2	0.0058	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Merphos	n/a	=	131	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Merphos	n/a	=	132	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Merphos	n/a	=	0.9	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Merphos	n/a	=	0.142	µg/L	EPA 525.2	0.0058	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Merphos	n/a	=	142	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Merphos	n/a	=	0.0612	µg/L	EPA 525.2	0.0058	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Merphos	n/a	=	122	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Methoxychlor	n/a	<	0.027	µg/L	EPA 608	0.027	0.1			
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02			
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Methyl parathion	n/a	=	0.0907	µg/L	EPA 525.2	0.0063	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Methyl parathion	n/a	=	0.17	µg/L	EPA 525.2	0.0063	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Methyl parathion	n/a	=	170	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Methyl parathion	n/a	=	91	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Methyl parathion	n/a	=	61	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Methyl parathion	n/a	=	0.0887	µg/L	EPA 525.2	0.0063	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Methyl parathion	n/a	=	0.0802	µg/L	EPA 525.2	0.0063	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Methyl parathion	n/a	=	160	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Methyl parathion	n/a	=	177	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Methyl parathion	n/a	=	10	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Methyl parathion	n/a	=	0.0981	µg/L	EPA 525.2	0.0063	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Methyl parathion	n/a	=	98	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Methyl parathion	n/a	=	0.0794	µg/L	EPA 525.2	0.0063	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Methyl parathion	n/a	=	159	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Metolachlor	n/a	=	8.2	µg/L	EPA 525.2	0.056	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Metolachlor	n/a	=	164	%	EPA 525.2	-88	-88	55	170	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Metolachlor	n/a	=	9.94	µg/L	EPA 525.2	0.056	0.1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Metolachlor	n/a	=	199	%	EPA 525.2	-88	-88	55	170	EUM
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Metolachlor	n/a	=	9.67	µg/L	EPA 525.2	0.056	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Metolachlor	n/a	=	8.06	µg/L	EPA 525.2	0.056	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Metolachlor	n/a	=	161	%	EPA 525.2	-88	-88	53	178	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Metolachlor	n/a	=	193	%	EPA 525.2	-88	-88	53	178	GB
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Metolachlor	n/a	=	18	%	EPA 525.2	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Metolachlor	n/a	=	6.61	µg/L	EPA 525.2	0.056	0.1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Metolachlor	n/a	=	132	%	EPA 525.2	-88	-88	53	178	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Metolachlor	n/a	=	7.51	µg/L	EPA 525.2	0.056	0.1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Metolachlor	n/a	=	150	%	EPA 525.2	-88	-88	53	178	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Metolachlor	n/a	=	13	%	EPA 525.2	-88	-88	0	30	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Metribuzin	n/a	=	7.49	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Metribuzin	n/a	=	150	%	EPA 525.2	-88	-88	44	149	EUM
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Metribuzin	n/a	=	9.37	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Metribuzin	n/a	=	187	%	EPA 525.2	-88	-88	44	149	EUM
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Metribuzin	n/a	=	8.56	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Metribuzin	n/a	=	6.7	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Metribuzin	n/a	=	134	%	EPA 525.2	-88	-88	64	155	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Metribuzin	n/a	=	171	%	EPA 525.2	-88	-88	64	155	GB
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Metribuzin	n/a	=	24	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Metribuzin	n/a	=	4.58	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Metribuzin	n/a	=	92	%	EPA 525.2	-88	-88	64	155	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Metribuzin	n/a	=	5.2	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Metribuzin	n/a	=	104	%	EPA 525.2	-88	-88	64	155	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Metribuzin	n/a	=	13	%	EPA 525.2	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Mevinphos	n/a	=	0.0445	µg/L	EPA 525.2	0.0042	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Mevinphos	n/a	=	0.0808	µg/L	EPA 525.2	0.0042	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Mevinphos	n/a	=	81	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Mevinphos	n/a	=	45	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Mevinphos	n/a	=	58	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Mevinphos	n/a	=	0.0629	µg/L	EPA 525.2	0.0042	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Mevinphos	n/a	=	0.0606	µg/L	EPA 525.2	0.0042	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Mevinphos	n/a	=	121	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Mevinphos	n/a	=	126	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Mevinphos	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Mevinphos	n/a	=	0.0858	µg/L	EPA 525.2	0.0042	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Mevinphos	n/a	=	86	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Mevinphos	n/a	=	0.0568	µg/L	EPA 525.2	0.0042	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Mevinphos	n/a	=	114	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Molinate	n/a	=	4.4	µg/L	EPA 525.2	0.051	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Molinate	n/a	=	88	%	EPA 525.2	-88	-88	76	116	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Molinate	n/a	=	4.39	µg/L	EPA 525.2	0.051	0.1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Molinate	n/a	=	88	%	EPA 525.2	-88	-88	76	116	
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Molinate	n/a	=	4.69	µg/L	EPA 525.2	0.051	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Molinate	n/a	=	4.75	µg/L	EPA 525.2	0.051	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Molinate	n/a	=	95	%	EPA 525.2	-88	-88	68	125	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Molinate	n/a	=	94	%	EPA 525.2	-88	-88	68	125	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Molinate	n/a	=	1	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Molinate	n/a	=	4.81	µg/L	EPA 525.2	0.051	0.1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Molinate	n/a	=	96	%	EPA 525.2	-88	-88	68	125	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Molinate	n/a	=	5.02	µg/L	EPA 525.2	0.051	0.1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Molinate	n/a	=	100	%	EPA 525.2	-88	-88	68	125	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Molinate	n/a	=	4	%	EPA 525.2	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Naled	n/a	=	0.0314	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Naled	n/a	=	0.121	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Naled	n/a	=	121	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Naled	n/a	=	31	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Naled	n/a	=	118	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Naled	n/a	=	0.0628	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Naled	n/a	=	0.0583	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Naled	n/a	=	117	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Naled	n/a	=	126	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Naled	n/a	=	7	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Naled	n/a	=	0.0768	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Naled	n/a	=	77	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Naled	n/a	=	0.054	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Naled	n/a	=	108	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-1	Lab	LCS	10/12/2010	Pesticide	Pentachlorophenol	n/a	=	1.88	µg/L	EPA 515.3	0.02	0.2			
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	Pentachlorophenol	n/a	=	94	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	Pentachlorophenol	n/a	=	1.8	µg/L	EPA 515.3	0.02	0.2			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	Pentachlorophenol	n/a	=	1.69	µg/L	EPA 515.3	0.02	0.2			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	Pentachlorophenol	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	Pentachlorophenol	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	Pentachlorophenol	n/a	=	6	%	EPA 515.3	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Phorate	n/a	=	0.0398	µg/L	EPA 525.2	0.003	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Phorate	n/a	=	0.0687	µg/L	EPA 525.2	0.003	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Phorate	n/a	=	69	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Phorate	n/a	=	40	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Phorate	n/a	=	53	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Phorate	n/a	=	0.0705	µg/L	EPA 525.2	0.003	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Phorate	n/a	=	0.07	µg/L	EPA 525.2	0.003	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Phorate	n/a	=	140	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Phorate	n/a	=	141	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Phorate	n/a	=	0.8	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Phorate	n/a	=	0.0673	µg/L	EPA 525.2	0.003	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Phorate	n/a	=	67	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Phorate	n/a	=	0.0692	µg/L	EPA 525.2	0.003	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Phorate	n/a	=	138	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			
2010/11-1	Lab	LCS	10/12/2010	Pesticide	Picloram	n/a	=	1.65	µg/L	EPA 515.3	0.34	0.6			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	Lab	LCS, rec	10/12/2010	Pesticide	Picloram	n/a	=	83	%	EPA 515.3	-88	-88	70	130	
2010/11-1	Lab	method blank	10/12/2010	Pesticide	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6			
2010/11-1	ME-SCR	matrix spike	10/12/2010	Pesticide	Picloram	n/a	=	1.52	µg/L	EPA 515.3	0.34	0.6			
2010/11-1	ME-SCR	matrix spike dup	10/12/2010	Pesticide	Picloram	n/a	=	1.52	µg/L	EPA 515.3	0.34	0.6			
2010/11-1	ME-SCR	matrix spike dup, rec	10/12/2010	Pesticide	Picloram	n/a	=	76	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, rec	10/12/2010	Pesticide	Picloram	n/a	=	76	%	EPA 515.3	-88	-88	70	130	
2010/11-1	ME-SCR	matrix spike, RPD	10/12/2010	Pesticide	Picloram	n/a	=	0	%	EPA 515.3	-88	-88	0	30	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Prometon	n/a	=	9.23	µg/L	EPA 525.2	0.16	0.2			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Prometon	n/a	=	185	%	EPA 525.2	-88	-88	6	110	EUM
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Prometon	n/a	=	10.8	µg/L	EPA 525.2	0.16	0.2			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Prometon	n/a	=	217	%	EPA 525.2	-88	-88	6	110	EUM
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Prometon	n/a	=	9.77	µg/L	EPA 525.2	0.16	0.2			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Prometon	n/a	=	8.5	µg/L	EPA 525.2	0.16	0.2			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Prometon	n/a	=	170	%	EPA 525.2	-88	-88	5	148	GB
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Prometon	n/a	=	195	%	EPA 525.2	-88	-88	5	148	GB
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Prometon	n/a	=	14	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Prometon	n/a	=	6.72	µg/L	EPA 525.2	0.16	0.2			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Prometon	n/a	=	134	%	EPA 525.2	-88	-88	5	148	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Prometon	n/a	=	7.88	µg/L	EPA 525.2	0.16	0.2			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Prometon	n/a	=	158	%	EPA 525.2	-88	-88	5	148	GB
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Prometon	n/a	=	16	%	EPA 525.2	-88	-88	0	30	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Prometryn	n/a	=	8.78	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Prometryn	n/a	=	176	%	EPA 525.2	-88	-88	34	152	EUM
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Prometryn	n/a	=	10.7	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Prometryn	n/a	=	214	%	EPA 525.2	-88	-88	34	152	EUM
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Prometryn	n/a	=	10.5	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Prometryn	n/a	=	8.68	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Prometryn	n/a	=	174	%	EPA 525.2	-88	-88	44	169	GB
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Prometryn	n/a	=	209	%	EPA 525.2	-88	-88	44	169	GB
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Prometryn	n/a	=	19	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Prometryn	n/a	=	7.14	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Prometryn	n/a	=	143	%	EPA 525.2	-88	-88	44	169	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Prometryn	n/a	=	8.27	µg/L	EPA 525.2	0.074	0.1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Prometryn	n/a	=	165	%	EPA 525.2	-88	-88	44	169	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Prometryn	n/a	=	15	%	EPA 525.2	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0551	µg/L	EPA 525.2	0.0041	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0847	µg/L	EPA 525.2	0.0041	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	85	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	55	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	42	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0791	µg/L	EPA 525.2	0.0041	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0748	µg/L	EPA 525.2	0.0041	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	150	%	EPA 525.2	-88	-88	50	150	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	158	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	6	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.1	µg/L	EPA 525.2	0.0041	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	100	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0744	µg/L	EPA 525.2	0.0041	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	149	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Simazine	n/a	=	7.78	µg/L	EPA 525.2	0.083	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Simazine	n/a	=	156	%	EPA 525.2	-88	-88	54	156	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Simazine	n/a	=	8.58	µg/L	EPA 525.2	0.083	0.1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Simazine	n/a	=	172	%	EPA 525.2	-88	-88	54	156	EUM
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Simazine	n/a	=	8.26	µg/L	EPA 525.2	0.083	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Simazine	n/a	=	6.6	µg/L	EPA 525.2	0.083	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Simazine	n/a	=	132	%	EPA 525.2	-88	-88	53	152	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Simazine	n/a	=	165	%	EPA 525.2	-88	-88	53	152	GB
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Simazine	n/a	=	22	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Simazine	n/a	=	5.5	µg/L	EPA 525.2	0.083	0.1			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Simazine	n/a	=	110	%	EPA 525.2	-88	-88	53	152	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Simazine	n/a	=	6.31	µg/L	EPA 525.2	0.083	0.1			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Simazine	n/a	=	126	%	EPA 525.2	-88	-88	53	152	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Simazine	n/a	=	14	%	EPA 525.2	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0729	µg/L	EPA 525.2	0.0031	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0914	µg/L	EPA 525.2	0.0031	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	91	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	73	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	22	%	EPA 525.2	-88	-88	0	25	
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.115	µg/L	EPA 525.2	0.0031	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.104	µg/L	EPA 525.2	0.0031	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	209	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	229	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	9	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.117	µg/L	EPA 525.2	0.0031	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	117	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0969	µg/L	EPA 525.2	0.0031	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	194	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Terbacil	n/a	=	3.67	µg/L	EPA 525.2	0.55	2			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Terbacil	n/a	=	73	%	EPA 525.2	-88	-88	66	140	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Terbacil	n/a	=	4.12	µg/L	EPA 525.2	0.55	2			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Terbacil	n/a	=	82	%	EPA 525.2	-88	-88	66	140	
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Terbacil	n/a	=	4.94	µg/L	EPA 525.2	0.55	2			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Terbacil	n/a	=	4.57	µg/L	EPA 525.2	0.55	2			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Terbacil	n/a	=	91	%	EPA 525.2	-88	-88	56	159	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Terbacil	n/a	=	99	%	EPA 525.2	-88	-88	56	159	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Terbacil	n/a	=	8	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Terbacil	n/a	=	4.35	µg/L	EPA 525.2	0.55	2			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Terbacil	n/a	=	87	%	EPA 525.2	-88	-88	56	159	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Terbacil	n/a	=	4.63	µg/L	EPA 525.2	0.55	2			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Terbacil	n/a	=	93	%	EPA 525.2	-88	-88	56	159	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Terbacil	n/a	=	6	%	EPA 525.2	-88	-88	0	30	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Thiobencarb	n/a	=	6.23	µg/L	EPA 525.2	0.11	0.2			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Thiobencarb	n/a	=	125	%	EPA 525.2	-88	-88	57	162	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Thiobencarb	n/a	=	7.43	µg/L	EPA 525.2	0.11	0.2			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Thiobencarb	n/a	=	149	%	EPA 525.2	-88	-88	57	162	
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Thiobencarb	n/a	=	7.08	µg/L	EPA 525.2	0.11	0.2			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Thiobencarb	n/a	=	5.83	µg/L	EPA 525.2	0.11	0.2			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Thiobencarb	n/a	=	117	%	EPA 525.2	-88	-88	71	160	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Thiobencarb	n/a	=	142	%	EPA 525.2	-88	-88	71	160	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Thiobencarb	n/a	=	19	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Thiobencarb	n/a	=	4.02	µg/L	EPA 525.2	0.11	0.2			
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Thiobencarb	n/a	=	80	%	EPA 525.2	-88	-88	71	160	
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Thiobencarb	n/a	=	4.19	µg/L	EPA 525.2	0.11	0.2			
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Thiobencarb	n/a	=	84	%	EPA 525.2	-88	-88	71	160	
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Thiobencarb	n/a	=	4	%	EPA 525.2	-88	-88	0	30	
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Tokuthion	n/a	=	0.0594	µg/L	EPA 525.2	0.0078	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Tokuthion	n/a	=	0.0878	µg/L	EPA 525.2	0.0078	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Tokuthion	n/a	=	88	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Tokuthion	n/a	=	59	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Tokuthion	n/a	=	39	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Tokuthion	n/a	=	0.0787	µg/L	EPA 525.2	0.0078	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Tokuthion	n/a	=	0.0764	µg/L	EPA 525.2	0.0078	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Tokuthion	n/a	=	153	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Tokuthion	n/a	=	157	%	EPA 525.2	-88	-88	50	150	GB
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Tokuthion	n/a	=	3	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Tokuthion	n/a	=	0.0967	µg/L	EPA 525.2	0.0078	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Tokuthion	n/a	=	97	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Tokuthion	n/a	=	0.0778	µg/L	EPA 525.2	0.0078	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Tokuthion	n/a	=	156	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			
2010/11-1	Lab	method blank	10/13/2010	Pesticide	Toxaphene	n/a	<	0.6	µg/L	EPA 608	0.6	2.5			
2010/11-1	Lab	method blank	10/15/2010	Pesticide	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5			
2010/11-1	000NONPJ	matrix spike	10/25/2010	Pesticide	Trichloronate	n/a	=	0.0473	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	000NONPJ	matrix spike dup	10/25/2010	Pesticide	Trichloronate	n/a	=	0.141	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	10/25/2010	Pesticide	Trichloronate	n/a	=	141	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	10/25/2010	Pesticide	Trichloronate	n/a	=	47	%	EPA 525.2	-88	-88	50	150	GB

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-1	000NONPJ	matrix spike, RPD	10/25/2010	Pesticide	Trichloronate	n/a	=	100	%	EPA 525.2	-88	-88	0	25	IL
2010/11-1	000NONPJ	matrix spike	11/2/2010	Pesticide	Trichloronate	n/a	=	0.0698	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	000NONPJ	matrix spike dup	11/2/2010	Pesticide	Trichloronate	n/a	=	0.066	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	000NONPJ	matrix spike dup, rec	11/2/2010	Pesticide	Trichloronate	n/a	=	132	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, rec	11/2/2010	Pesticide	Trichloronate	n/a	=	140	%	EPA 525.2	-88	-88	50	150	
2010/11-1	000NONPJ	matrix spike, RPD	11/2/2010	Pesticide	Trichloronate	n/a	=	6	%	EPA 525.2	-88	-88	0	25	
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Trichloronate	n/a	=	0.0887	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Trichloronate	n/a	=	89	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	Lab	LCS	11/2/2010	Pesticide	Trichloronate	n/a	=	0.0689	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	Lab	LCS, rec	11/2/2010	Pesticide	Trichloronate	n/a	=	138	%	EPA 525.2	-88	-88	50	150	
2010/11-1	Lab	method blank	11/2/2010	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-1	Lab	LCS	10/25/2010	Pesticide	Trithion	n/a	=	5.83	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	Lab	LCS, rec	10/25/2010	Pesticide	Trithion	n/a	=	117	%	EPA 525.2	-88	-88	62	149	
2010/11-1	Lab	method blank	10/25/2010	Pesticide	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	Lab	LCS	10/26/2010	Pesticide	Trithion	n/a	=	7.31	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	Lab	LCS, rec	10/26/2010	Pesticide	Trithion	n/a	=	146	%	EPA 525.2	-88	-88	62	149	
2010/11-1	Lab	method blank	10/26/2010	Pesticide	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	MO-HUE	matrix spike	10/26/2010	Pesticide	Trithion	n/a	=	5.92	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	MO-HUE	matrix spike dup	10/26/2010	Pesticide	Trithion	n/a	=	4.55	µg/L	EPA 525.2	0.01	0.1			
2010/11-1	MO-HUE	matrix spike dup, rec	10/26/2010	Pesticide	Trithion	n/a	=	91	%	EPA 525.2	-88	-88	86	144	
2010/11-1	MO-HUE	matrix spike, rec	10/26/2010	Pesticide	Trithion	n/a	=	118	%	EPA 525.2	-88	-88	86	144	
2010/11-1	MO-HUE	matrix spike, RPD	10/26/2010	Pesticide	Trithion	n/a	=	26	%	EPA 525.2	-88	-88	0	30	
2010/11-1	MO-OJA	matrix spike	10/25/2010	Pesticide	Trithion	n/a	=	1.63	µg/L	EPA 525.2	0.01	0.1			GB
2010/11-1	MO-OJA	matrix spike, rec	10/25/2010	Pesticide	Trithion	n/a	=	33	%	EPA 525.2	-88	-88	86	144	GB
2010/11-1	MO-OJA	matrix spike dup	10/26/2010	Pesticide	Trithion	n/a	=	1.63	µg/L	EPA 525.2	0.01	0.1			GB
2010/11-1	MO-OJA	matrix spike dup, rec	10/26/2010	Pesticide	Trithion	n/a	=	33	%	EPA 525.2	-88	-88	86	144	GB
2010/11-1	MO-OJA	matrix spike, RPD	10/26/2010	Pesticide	Trithion	n/a	=	0	%	EPA 525.2	-88	-88	0	30	
2010/11-2	000NONPJ	matrix spike	11/4/2010	Anion	Chloride	n/a	=	376	mg/L	EPA 300.0	5	25			D
2010/11-2	000NONPJ	matrix spike	11/4/2010	Anion	Chloride	n/a	=	257	mg/L	EPA 300.0	5	25			D
2010/11-2	000NONPJ	matrix spike dup	11/4/2010	Anion	Chloride	n/a	=	378	mg/L	EPA 300.0	5	25			D
2010/11-2	000NONPJ	matrix spike dup	11/4/2010	Anion	Chloride	n/a	=	258	mg/L	EPA 300.0	5	25			D
2010/11-2	000NONPJ	matrix spike dup, rec	11/4/2010	Anion	Chloride	n/a	=	82	%	EPA 300.0	-88	-88	72	118	D
2010/11-2	000NONPJ	matrix spike dup, rec	11/4/2010	Anion	Chloride	n/a	=	93	%	EPA 300.0	-88	-88	72	118	D
2010/11-2	000NONPJ	matrix spike, rec	11/4/2010	Anion	Chloride	n/a	=	81	%	EPA 300.0	-88	-88	72	118	D
2010/11-2	000NONPJ	matrix spike, rec	11/4/2010	Anion	Chloride	n/a	=	93	%	EPA 300.0	-88	-88	72	118	D
2010/11-2	000NONPJ	matrix spike, RPD	11/4/2010	Anion	Chloride	n/a	=	0.6	%	EPA 300.0	-88	-88	0	20	D
2010/11-2	000NONPJ	matrix spike, RPD	11/4/2010	Anion	Chloride	n/a	=	0.5	%	EPA 300.0	-88	-88	0	20	D
2010/11-2	000NONPJ	matrix spike	11/6/2010	Anion	Chloride	n/a	=	249	mg/L	EPA 300.0	1	5			D
2010/11-2	000NONPJ	matrix spike	11/6/2010	Anion	Chloride	n/a	=	62.2	mg/L	EPA 300.0	1	5			D
2010/11-2	000NONPJ	matrix spike dup	11/6/2010	Anion	Chloride	n/a	=	247	mg/L	EPA 300.0	1	5			D
2010/11-2	000NONPJ	matrix spike dup	11/6/2010	Anion	Chloride	n/a	=	62	mg/L	EPA 300.0	1	5			D
2010/11-2	000NONPJ	matrix spike dup, rec	11/6/2010	Anion	Chloride	n/a	=	93	%	EPA 300.0	-88	-88	72	118	D
2010/11-2	000NONPJ	matrix spike dup, rec	11/6/2010	Anion	Chloride	n/a	=	91	%	EPA 300.0	-88	-88	72	118	D
2010/11-2	000NONPJ	matrix spike, rec	11/6/2010	Anion	Chloride	n/a	=	91	%	EPA 300.0	-88	-88	72	118	D
2010/11-2	000NONPJ	matrix spike, rec	11/6/2010	Anion	Chloride	n/a	=	97	%	EPA 300.0	-88	-88	72	118	D
2010/11-2	000NONPJ	matrix spike, RPD	11/6/2010	Anion	Chloride	n/a	=	0.7	%	EPA 300.0	-88	-88	0	20	D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, RPD	11/6/2010	Anion	Chloride	n/a	=	0.4	%	EPA 300.0	-88	-88	0	20	D
2010/11-2	Lab	LCS	11/4/2010	Anion	Chloride	n/a	=	3.83	mg/L	EPA 300.0	0.1	0.5			X
2010/11-2	Lab	LCS, rec	11/4/2010	Anion	Chloride	n/a	=	96	%	EPA 300.0	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/4/2010	Anion	Chloride	n/a	<	0.1	mg/L	EPA 300.0	0.1	0.5			X
2010/11-2	Lab	LCS	11/6/2010	Anion	Chloride	n/a	=	3.82	mg/L	EPA 300.0	0.1	0.5			X
2010/11-2	Lab	LCS, rec	11/6/2010	Anion	Chloride	n/a	=	95	%	EPA 300.0	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/6/2010	Anion	Chloride	n/a	<	0.1	mg/L	EPA 300.0	0.1	0.5			X
2010/11-2	000NONPJ	matrix spike	11/4/2010	Anion	Fluoride	n/a	=	98	mg/L	EPA 300.0	1	5			D
2010/11-2	000NONPJ	matrix spike	11/4/2010	Anion	Fluoride	n/a	=	89.3	mg/L	EPA 300.0	1	5			D
2010/11-2	000NONPJ	matrix spike dup	11/4/2010	Anion	Fluoride	n/a	=	91	mg/L	EPA 300.0	1	5			D
2010/11-2	000NONPJ	matrix spike dup	11/4/2010	Anion	Fluoride	n/a	=	99.4	mg/L	EPA 300.0	1	5			D
2010/11-2	000NONPJ	matrix spike dup, rec	11/4/2010	Anion	Fluoride	n/a	=	91	%	EPA 300.0	-88	-88	79	109	D
2010/11-2	000NONPJ	matrix spike dup, rec	11/4/2010	Anion	Fluoride	n/a	=	99	%	EPA 300.0	-88	-88	79	109	D
2010/11-2	000NONPJ	matrix spike, rec	11/4/2010	Anion	Fluoride	n/a	=	89	%	EPA 300.0	-88	-88	79	109	D
2010/11-2	000NONPJ	matrix spike, rec	11/4/2010	Anion	Fluoride	n/a	=	98	%	EPA 300.0	-88	-88	79	109	D
2010/11-2	000NONPJ	matrix spike, RPD	11/4/2010	Anion	Fluoride	n/a	=	2	%	EPA 300.0	-88	-88	0	20	D
2010/11-2	000NONPJ	matrix spike, RPD	11/4/2010	Anion	Fluoride	n/a	=	1	%	EPA 300.0	-88	-88	0	20	D
2010/11-2	000NONPJ	matrix spike	11/6/2010	Anion	Fluoride	n/a	=	19.4	mg/L	EPA 300.0	0.2	1			D
2010/11-2	000NONPJ	matrix spike	11/6/2010	Anion	Fluoride	n/a	=	19.9	mg/L	EPA 300.0	0.2	1			D
2010/11-2	000NONPJ	matrix spike dup	11/6/2010	Anion	Fluoride	n/a	=	20	mg/L	EPA 300.0	0.2	1			D
2010/11-2	000NONPJ	matrix spike dup	11/6/2010	Anion	Fluoride	n/a	=	19.4	mg/L	EPA 300.0	0.2	1			D
2010/11-2	000NONPJ	matrix spike dup, rec	11/6/2010	Anion	Fluoride	n/a	=	96	%	EPA 300.0	-88	-88	79	109	D
2010/11-2	000NONPJ	matrix spike dup, rec	11/6/2010	Anion	Fluoride	n/a	=	96	%	EPA 300.0	-88	-88	79	109	D
2010/11-2	000NONPJ	matrix spike, rec	11/6/2010	Anion	Fluoride	n/a	=	95	%	EPA 300.0	-88	-88	79	109	D
2010/11-2	000NONPJ	matrix spike, rec	11/6/2010	Anion	Fluoride	n/a	=	96	%	EPA 300.0	-88	-88	79	109	D
2010/11-2	000NONPJ	matrix spike, RPD	11/6/2010	Anion	Fluoride	n/a	=	0.8	%	EPA 300.0	-88	-88	0	20	D
2010/11-2	000NONPJ	matrix spike, RPD	11/6/2010	Anion	Fluoride	n/a	=	0	%	EPA 300.0	-88	-88	0	20	D
2010/11-2	Lab	LCS	11/4/2010	Anion	Fluoride	n/a	=	1.97	mg/L	EPA 300.0	0.02	0.1			X
2010/11-2	Lab	LCS, rec	11/4/2010	Anion	Fluoride	n/a	=	99	%	EPA 300.0	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/4/2010	Anion	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1			X
2010/11-2	Lab	LCS	11/6/2010	Anion	Fluoride	n/a	=	1.95	mg/L	EPA 300.0	0.02	0.1			X
2010/11-2	Lab	LCS, rec	11/6/2010	Anion	Fluoride	n/a	=	98	%	EPA 300.0	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/6/2010	Anion	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike	11/9/2010	Anion	Perchlorate	n/a	=	16.2	µg/L	EPA 314.0	0.82	2			X
2010/11-2	000NONPJ	matrix spike dup	11/9/2010	Anion	Perchlorate	n/a	=	16.9	µg/L	EPA 314.0	0.82	2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/9/2010	Anion	Perchlorate	n/a	=	117	%	EPA 314.0	-88	-88	80	120	X
2010/11-2	000NONPJ	matrix spike, rec	11/9/2010	Anion	Perchlorate	n/a	=	110	%	EPA 314.0	-88	-88	80	120	X
2010/11-2	000NONPJ	matrix spike, RPD	11/9/2010	Anion	Perchlorate	n/a	=	4	%	EPA 314.0	-88	-88	0	15	X
2010/11-2	Lab	LCS	11/9/2010	Anion	Perchlorate	n/a	=	10.3	µg/L	EPA 314.0	0.82	2			X
2010/11-2	Lab	LCS, rec	11/9/2010	Anion	Perchlorate	n/a	=	103	%	EPA 314.0	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Anion	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2			X
2010/11-2	000NONPJ	matrix spike	11/8/2010	Cation	Calcium	Total	=	68.2	mg/L	EPA 200.7	0.016	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/8/2010	Cation	Calcium	Total	=	68.4	mg/L	EPA 200.7	0.016	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/8/2010	Cation	Calcium	Total	=	96	%	EPA 200.7	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/8/2010	Cation	Calcium	Total	=	95	%	EPA 200.7	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/8/2010	Cation	Calcium	Total	=	0.3	%	EPA 200.7	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Cation	Calcium	Total	=	45.9	mg/L	EPA 200.7	0.016	0.1			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS, rec	11/5/2010	Cation	Calcium	Total	=	91	%	EPA 200.7	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/5/2010	Cation	Calcium	Total	<	0.016	mg/L	EPA 200.7	0.016	0.1			X
2010/11-2	Lab	LCS	11/8/2010	Cation	Calcium	Total	=	48.2	mg/L	EPA 200.7	0.016	0.1			X
2010/11-2	Lab	LCS, rec	11/8/2010	Cation	Calcium	Total	=	96	%	EPA 200.7	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/8/2010	Cation	Calcium	Total	<	0.016	mg/L	EPA 200.7	0.016	0.1			X
2010/11-2	MO-FIL	matrix spike	11/5/2010	Cation	Calcium	Total	=	83.1	mg/L	EPA 200.7	0.016	0.1			X
2010/11-2	MO-FIL	matrix spike dup	11/5/2010	Cation	Calcium	Total	=	80.8	mg/L	EPA 200.7	0.016	0.1			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/5/2010	Cation	Calcium	Total	=	91	%	EPA 200.7	-88	-88	70	130	X
2010/11-2	MO-FIL	matrix spike, rec	11/5/2010	Cation	Calcium	Total	=	96	%	EPA 200.7	-88	-88	70	130	X
2010/11-2	MO-FIL	matrix spike, RPD	11/5/2010	Cation	Calcium	Total	=	3	%	EPA 200.7	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/8/2010	Cation	Magnesium	Total	=	54.5	mg/L	EPA 200.7	0.012	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/8/2010	Cation	Magnesium	Total	=	55.7	mg/L	EPA 200.7	0.012	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/8/2010	Cation	Magnesium	Total	=	99	%	EPA 200.7	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/8/2010	Cation	Magnesium	Total	=	97	%	EPA 200.7	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/8/2010	Cation	Magnesium	Total	=	2	%	EPA 200.7	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Cation	Magnesium	Total	=	45.4	mg/L	EPA 200.7	0.012	0.1			X
2010/11-2	Lab	LCS, rec	11/5/2010	Cation	Magnesium	Total	=	90	%	EPA 200.7	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/5/2010	Cation	Magnesium	Total	<	0.012	mg/L	EPA 200.7	0.012	0.1			X
2010/11-2	Lab	LCS	11/8/2010	Cation	Magnesium	Total	=	48.5	mg/L	EPA 200.7	0.012	0.1			X
2010/11-2	Lab	LCS, rec	11/8/2010	Cation	Magnesium	Total	=	97	%	EPA 200.7	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/8/2010	Cation	Magnesium	Total	<	0.012	mg/L	EPA 200.7	0.012	0.1			X
2010/11-2	MO-FIL	matrix spike	11/5/2010	Cation	Magnesium	Total	=	58.7	mg/L	EPA 200.7	0.012	0.1			X
2010/11-2	MO-FIL	matrix spike dup	11/5/2010	Cation	Magnesium	Total	=	56.8	mg/L	EPA 200.7	0.012	0.1			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/5/2010	Cation	Magnesium	Total	=	91	%	EPA 200.7	-88	-88	70	130	X
2010/11-2	MO-FIL	matrix spike, rec	11/5/2010	Cation	Magnesium	Total	=	95	%	EPA 200.7	-88	-88	70	130	X
2010/11-2	MO-FIL	matrix spike, RPD	11/5/2010	Cation	Magnesium	Total	=	3	%	EPA 200.7	-88	-88	0	30	X
2010/11-2	000NONPJ	lab duplicate	11/6/2010	Conventional	Alkalinity as CaCO3	n/a	=	173	mg/L	SM 2320 B	1.2	2		15	X
2010/11-2	000NONPJ	lab duplicate	11/11/2010	Conventional	Alkalinity as CaCO3	n/a	=	13.4	mg/L	SM 2320 B	1.2	2		15	X
2010/11-2	Lab	LCS	11/6/2010	Conventional	Alkalinity as CaCO3	n/a	=	261	mg/L	SM 2320 B	1.2	2			X
2010/11-2	Lab	LCS, rec	11/6/2010	Conventional	Alkalinity as CaCO3	n/a	=	104	%	SM 2320 B	-88	-88	94	108	X
2010/11-2	Lab	method blank	11/6/2010	Conventional	Alkalinity as CaCO3	n/a	<	1.2	mg/L	SM 2320 B	1.2	2			X
2010/11-2	Lab	LCS	11/11/2010	Conventional	Alkalinity as CaCO3	n/a	=	258	mg/L	SM 2320 B	1.2	2			X
2010/11-2	Lab	LCS, rec	11/11/2010	Conventional	Alkalinity as CaCO3	n/a	=	103	%	SM 2320 B	-88	-88	94	108	X
2010/11-2	Lab	method blank	11/11/2010	Conventional	Alkalinity as CaCO3	n/a	<	1.2	mg/L	SM 2320 B	1.2	2			X
2010/11-2	Lab	LCS	11/4/2010	Conventional	BOD	n/a	=	177	mg/L	SM 5210 B	0.1	2			X
2010/11-2	Lab	LCS, rec	11/4/2010	Conventional	BOD	n/a	=	89	%	SM 5210 B	-88	-88	85	115	X
2010/11-2	Lab	LCS	11/6/2010	Conventional	BOD	n/a	=	184	mg/L	SM 5210 B	0.1	2			X
2010/11-2	Lab	LCS, rec	11/6/2010	Conventional	BOD	n/a	=	93	%	SM 5210 B	-88	-88	85	115	X
2010/11-2	000NONPJ	matrix spike	11/3/2010	Conventional	COD	n/a	=	194	mg/L	EPA 410.4	3.7	10			D
2010/11-2	000NONPJ	matrix spike	11/3/2010	Conventional	COD	n/a	=	188	mg/L	EPA 410.4	3.7	10			D
2010/11-2	000NONPJ	matrix spike dup	11/3/2010	Conventional	COD	n/a	=	194	mg/L	EPA 410.4	3.7	10			D
2010/11-2	000NONPJ	matrix spike dup	11/3/2010	Conventional	COD	n/a	=	188	mg/L	EPA 410.4	3.7	10			D
2010/11-2	000NONPJ	matrix spike dup, rec	11/3/2010	Conventional	COD	n/a	=	97	%	EPA 410.4	-88	-88	90	110	D
2010/11-2	000NONPJ	matrix spike dup, rec	11/3/2010	Conventional	COD	n/a	=	94	%	EPA 410.4	-88	-88	90	110	D
2010/11-2	000NONPJ	matrix spike, rec	11/3/2010	Conventional	COD	n/a	=	97	%	EPA 410.4	-88	-88	90	110	D
2010/11-2	000NONPJ	matrix spike, rec	11/3/2010	Conventional	COD	n/a	=	94	%	EPA 410.4	-88	-88	90	110	D
2010/11-2	000NONPJ	matrix spike, RPD	11/3/2010	Conventional	COD	n/a	=	0.02	%	EPA 410.4	-88	-88	0	15	D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, RPD	11/3/2010	Conventional	COD	n/a	=	0.02	%	EPA 410.4	-88	-88	0	15	D
2010/11-2	Lab	LCS	11/3/2010	Conventional	COD	n/a	=	1080	mg/L	EPA 410.4	1.8	5			X
2010/11-2	Lab	LCS, rec	11/3/2010	Conventional	COD	n/a	=	108	%	EPA 410.4	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/3/2010	Conventional	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5			X
2010/11-2	Lab	LCS	11/9/2010	Conventional	Cyanide	Total	=	0.0498	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-2	Lab	LCS, rec	11/9/2010	Conventional	Cyanide	Total	=	100	%	EPA 335.4	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/9/2010	Conventional	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-2	ME-SCR	matrix spike	11/9/2010	Conventional	Cyanide	Total	=	0.208	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-2	ME-SCR	matrix spike dup	11/9/2010	Conventional	Cyanide	Total	=	0.203	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-2	ME-SCR	matrix spike dup, rec	11/9/2010	Conventional	Cyanide	Total	=	102	%	EPA 335.4	-88	-88	90	110	X
2010/11-2	ME-SCR	matrix spike, rec	11/9/2010	Conventional	Cyanide	Total	=	104	%	EPA 335.4	-88	-88	90	110	X
2010/11-2	ME-SCR	matrix spike, RPD	11/9/2010	Conventional	Cyanide	Total	=	2	%	EPA 335.4	-88	-88	0	20	X
2010/11-2	ME-VR2	matrix spike	11/9/2010	Conventional	Cyanide	Total	=	0.205	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-2	ME-VR2	matrix spike dup	11/9/2010	Conventional	Cyanide	Total	=	0.201	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-2	ME-VR2	matrix spike dup, rec	11/9/2010	Conventional	Cyanide	Total	=	100	%	EPA 335.4	-88	-88	90	110	X
2010/11-2	ME-VR2	matrix spike, rec	11/9/2010	Conventional	Cyanide	Total	=	102	%	EPA 335.4	-88	-88	90	110	X
2010/11-2	ME-VR2	matrix spike, RPD	11/9/2010	Conventional	Cyanide	Total	=	2	%	EPA 335.4	-88	-88	0	20	X
2010/11-2	Lab	LCS	10/30/2010	Conventional	MBAS	n/a	=	0.188	mg/L	SM 5540 C	0.019	0.05			X
2010/11-2	Lab	LCS, rec	10/30/2010	Conventional	MBAS	n/a	=	94	%	SM 5540 C	-88	-88	79	113	X
2010/11-2	Lab	method blank	10/30/2010	Conventional	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05			X
2010/11-2	Lab	LCS	11/1/2010	Conventional	MBAS	n/a	=	0.217	mg/L	SM 5540 C	0.019	0.05			X
2010/11-2	Lab	LCS, rec	11/1/2010	Conventional	MBAS	n/a	=	108	%	SM 5540 C	-88	-88	79	113	X
2010/11-2	Lab	method blank	11/1/2010	Conventional	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05			X
2010/11-2	ME-SCR	matrix spike	11/1/2010	Conventional	MBAS	n/a	=	0.28	mg/L	SM 5540 C	0.019	0.05			X
2010/11-2	ME-SCR	matrix spike dup	11/1/2010	Conventional	MBAS	n/a	=	0.28	mg/L	SM 5540 C	0.019	0.05			X
2010/11-2	ME-SCR	matrix spike dup, rec	11/1/2010	Conventional	MBAS	n/a	=	100	%	SM 5540 C	-88	-88	77	118	X
2010/11-2	ME-SCR	matrix spike, rec	11/1/2010	Conventional	MBAS	n/a	=	100	%	SM 5540 C	-88	-88	77	118	X
2010/11-2	ME-SCR	matrix spike, RPD	11/1/2010	Conventional	MBAS	n/a	=	0.2	%	SM 5540 C	-88	-88	0	20	X
2010/11-2	MO-SIM	matrix spike	10/30/2010	Conventional	MBAS	n/a	=	0.646	mg/L	SM 5540 C	0.038	0.1			D
2010/11-2	MO-SIM	matrix spike dup	10/30/2010	Conventional	MBAS	n/a	=	0.62	mg/L	SM 5540 C	0.038	0.1			D
2010/11-2	MO-SIM	matrix spike dup, rec	10/30/2010	Conventional	MBAS	n/a	=	98	%	SM 5540 C	-88	-88	77	118	D
2010/11-2	MO-SIM	matrix spike, rec	10/30/2010	Conventional	MBAS	n/a	=	104	%	SM 5540 C	-88	-88	77	118	D
2010/11-2	MO-SIM	matrix spike, RPD	10/30/2010	Conventional	MBAS	n/a	=	4	%	SM 5540 C	-88	-88	0	20	D
2010/11-2	Lab	LCS	11/10/2010	Conventional	Phenolics	n/a	=	0.1	mg/L	EPA 420.4	0.0016	0.01			X
2010/11-2	Lab	LCS, rec	11/10/2010	Conventional	Phenolics	n/a	=	100	%	EPA 420.4	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/10/2010	Conventional	Phenolics	n/a	<	0.0016	mg/L	EPA 420.4	0.0016	0.01			X
2010/11-2	MO-FIL	matrix spike	11/10/2010	Conventional	Phenolics	n/a	=	0.269	mg/L	EPA 420.4	0.0016	0.01			GB
2010/11-2	MO-FIL	matrix spike dup	11/10/2010	Conventional	Phenolics	n/a	=	0.261	mg/L	EPA 420.4	0.0016	0.01			GB
2010/11-2	MO-FIL	matrix spike dup, rec	11/10/2010	Conventional	Phenolics	n/a	=	72	%	EPA 420.4	-88	-88	90	110	GB
2010/11-2	MO-FIL	matrix spike, rec	11/10/2010	Conventional	Phenolics	n/a	=	76	%	EPA 420.4	-88	-88	90	110	GB
2010/11-2	MO-FIL	matrix spike, RPD	11/10/2010	Conventional	Phenolics	n/a	=	3	%	EPA 420.4	-88	-88	0	20	X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Conventional	Phenolics	n/a	=	0.254	mg/L	EPA 420.4	0.0016	0.01			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Conventional	Phenolics	n/a	=	0.259	mg/L	EPA 420.4	0.0016	0.01			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Conventional	Phenolics	n/a	=	101	%	EPA 420.4	-88	-88	90	110	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Conventional	Phenolics	n/a	=	99	%	EPA 420.4	-88	-88	90	110	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Conventional	Phenolics	n/a	=	2	%	EPA 420.4	-88	-88	0	20	X
2010/11-2	000NONPJ	lab duplicate	11/4/2010	Conventional	Specific Conductance	n/a	=	1170	µmhos/cm	SM 2510 B	0.23	2		4.28	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	lab duplicate	11/4/2010	Conventional	Specific Conductance	n/a	=	18.8	µmhos/cm	SM 2510 B	0.23	2		4.28	X
2010/11-2	Lab	LCS	11/4/2010	Conventional	Specific Conductance	n/a	=	208	µmhos/cm	SM 2510 B	0.23	2			X
2010/11-2	Lab	LCS	11/4/2010	Conventional	Specific Conductance	n/a	=	204	µmhos/cm	SM 2510 B	0.23	2			X
2010/11-2	Lab	LCS, rec	11/4/2010	Conventional	Specific Conductance	n/a	=	102	%	SM 2510 B	-88	-88	95	105	X
2010/11-2	Lab	LCS, rec	11/4/2010	Conventional	Specific Conductance	n/a	=	104	%	SM 2510 B	-88	-88	95	105	X
2010/11-2	Lab	method blank	11/4/2010	Conventional	Specific Conductance	n/a	DNQ	0.41	µmhos/cm	SM 2510 B	0.23	2			IP
2010/11-2	Lab	method blank	11/4/2010	Conventional	Specific Conductance	n/a	DNQ	0.52	µmhos/cm	SM 2510 B	0.23	2			IP
2010/11-2	Lab	LCS	11/1/2010	Conventional	Total Chlorine Residual	n/a	=	0.215	mg/L	SM 4500-Cl G	0.0016	0.05			X
2010/11-2	Lab	LCS, rec	11/1/2010	Conventional	Total Chlorine Residual	n/a	=	108	%	SM 4500-Cl G	-88	-88	82	112	X
2010/11-2	Lab	method blank	11/1/2010	Conventional	Total Chlorine Residual	n/a	<	0.0016	mg/L	SM 4500-Cl G	0.0016	0.05			X
2010/11-2	ME-CC	matrix spike	11/1/2010	Conventional	Total Chlorine Residual	n/a	=	0.283	mg/L	SM 4500-Cl G	0.0016	0.05			X
2010/11-2	ME-CC	matrix spike dup	11/1/2010	Conventional	Total Chlorine Residual	n/a	=	0.284	mg/L	SM 4500-Cl G	0.0016	0.05			X
2010/11-2	ME-CC	matrix spike dup, rec	11/1/2010	Conventional	Total Chlorine Residual	n/a	=	81	%	SM 4500-Cl G	-88	-88	65	128	X
2010/11-2	ME-CC	matrix spike, rec	11/1/2010	Conventional	Total Chlorine Residual	n/a	=	80	%	SM 4500-Cl G	-88	-88	65	128	X
2010/11-2	ME-CC	matrix spike, RPD	11/1/2010	Conventional	Total Chlorine Residual	n/a	=	0.6	%	SM 4500-Cl G	-88	-88	0	15	X
2010/11-2	000NONPJ	lab duplicate	11/5/2010	Conventional	Total Dissolved Solids	n/a	=	255	mg/L	SM 2540 C	4	10		10	X
2010/11-2	000NONPJ	lab duplicate	11/5/2010	Conventional	Total Dissolved Solids	n/a	=	975	mg/L	SM 2540 C	4	10		10	X
2010/11-2	Lab	LCS	11/5/2010	Conventional	Total Dissolved Solids	n/a	=	809	mg/L	SM 2540 C	4	10			X
2010/11-2	Lab	LCS, rec	11/5/2010	Conventional	Total Dissolved Solids	n/a	=	98	%	SM 2540 C	-88	-88	91	104	X
2010/11-2	Lab	method blank	11/5/2010	Conventional	Total Dissolved Solids	n/a	<	4	mg/L	SM 2540 C	4	10			X
2010/11-2	000NONPJ	matrix spike	11/10/2010	Conventional	Total Organic Carbon	n/a	=	6.98	mg/L	SM 5310 C	0.032	0.3			X
2010/11-2	000NONPJ	matrix spike dup	11/10/2010	Conventional	Total Organic Carbon	n/a	=	6.93	mg/L	SM 5310 C	0.032	0.3			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/10/2010	Conventional	Total Organic Carbon	n/a	=	102	%	SM 5310 C	-88	-88	84	107	X
2010/11-2	000NONPJ	matrix spike, rec	11/10/2010	Conventional	Total Organic Carbon	n/a	=	103	%	SM 5310 C	-88	-88	84	107	X
2010/11-2	000NONPJ	matrix spike, RPD	11/10/2010	Conventional	Total Organic Carbon	n/a	=	0.7	%	SM 5310 C	-88	-88	0	20	X
2010/11-2	Lab	LCS	11/10/2010	Conventional	Total Organic Carbon	n/a	=	4.69	mg/L	SM 5310 C	0.032	0.3			X
2010/11-2	Lab	LCS, rec	11/10/2010	Conventional	Total Organic Carbon	n/a	=	94	%	SM 5310 C	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/10/2010	Conventional	Total Organic Carbon	n/a	DNQ	0.0379	mg/L	SM 5310 C	0.032	0.3			IP
2010/11-2	000NONPJ	lab duplicate	11/5/2010	Conventional	Total Suspended Solids	n/a	=	867	mg/L	SM 2540 D	5	5		20	X
2010/11-2	000NONPJ	lab duplicate	11/5/2010	Conventional	Total Suspended Solids	n/a	=	940	mg/L	SM 2540 D	5	5		20	X
2010/11-2	Lab	method blank	11/5/2010	Conventional	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5			X
2010/11-2	000NONPJ	lab duplicate	10/30/2010	Conventional	Turbidity	n/a	=	6.07	NTU	EPA 180.1	0.024	0.1		10	X
2010/11-2	000NONPJ	lab duplicate	11/1/2010	Conventional	Turbidity	n/a	=	4.18	NTU	EPA 180.1	0.024	0.1		10	X
2010/11-2	Lab	LCS	10/30/2010	Conventional	Turbidity	n/a	=	6.52	NTU	EPA 180.1	0.024	0.1			X
2010/11-2	Lab	LCS, rec	10/30/2010	Conventional	Turbidity	n/a	=	95	%	EPA 180.1	-88	-88	90	110	X
2010/11-2	Lab	method blank	10/30/2010	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1			X
2010/11-2	Lab	LCS	11/1/2010	Conventional	Turbidity	n/a	=	6.71	NTU	EPA 180.1	0.024	0.1			X
2010/11-2	Lab	LCS, rec	11/1/2010	Conventional	Turbidity	n/a	=	98	%	EPA 180.1	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/1/2010	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1			X
2010/11-2	000NONPJ	lab duplicate	11/5/2010	Conventional	Volatile Suspended Solids	n/a	=	410	mg/L	EPA 160.4	3.1	5		15	X
2010/11-2	000NONPJ	lab duplicate	11/5/2010	Conventional	Volatile Suspended Solids	n/a	=	500	mg/L	EPA 160.4	3.1	5		15	X
2010/11-2	Lab	method blank	11/5/2010	Conventional	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5			X
2010/11-2	Lab	LCS	11/10/2010	Hydrocarbon	Oil and Grease	n/a	=	18.3	mg/L	EPA 1664A	2	5			X
2010/11-2	Lab	LCS	11/10/2010	Hydrocarbon	Oil and Grease	n/a	DNQ	4.3	mg/L	EPA 1664A	2	5			X
2010/11-2	Lab	LCS, rec	11/10/2010	Hydrocarbon	Oil and Grease	n/a	=	92	%	EPA 1664A	-88	-88	78	114	X
2010/11-2	Lab	LCS, rec	11/10/2010	Hydrocarbon	Oil and Grease	n/a	=	86	%	EPA 1664A	-88	-88	78	114	X
2010/11-2	Lab	method blank	11/10/2010	Hydrocarbon	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	ME-CC	matrix spike	11/10/2010	Hydrocarbon	Oil and Grease	n/a	=	21.6	mg/L	EPA 1664A	2	5			X
2010/11-2	ME-CC	matrix spike dup	11/10/2010	Hydrocarbon	Oil and Grease	n/a	=	22.1	mg/L	EPA 1664A	2	5			X
2010/11-2	ME-CC	matrix spike dup, rec	11/10/2010	Hydrocarbon	Oil and Grease	n/a	=	88	%	EPA 1664A	-88	-88	78	114	X
2010/11-2	ME-CC	matrix spike, rec	11/10/2010	Hydrocarbon	Oil and Grease	n/a	=	86	%	EPA 1664A	-88	-88	78	114	X
2010/11-2	ME-CC	matrix spike, RPD	11/10/2010	Hydrocarbon	Oil and Grease	n/a	=	2	%	EPA 1664A	-88	-88	0	18	X
2010/11-2	Lab	method blank	11/10/2010	Hydrocarbon	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5			X
2010/11-2	Lab	LCS	11/9/2010	Metal	Aluminum	Dissolved	=	52.6	µg/L	EPA 200.8	0.19	5			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Aluminum	Dissolved	=	105	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Aluminum	Dissolved	DNQ	1.51	µg/L	EPA 200.8	0.19	5			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Aluminum	Dissolved	=	52.6	µg/L	EPA 200.8	0.19	5			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Aluminum	Dissolved	=	105	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Aluminum	Dissolved	DNQ	1.4	µg/L	EPA 200.8	0.19	5			IP
2010/11-2	Lab	LCS	11/9/2010	Metal	Aluminum	Total	=	52.6	µg/L	EPA 200.8	0.19	5			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Aluminum	Total	=	105	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Aluminum	Total	DNQ	1.51	µg/L	EPA 200.8	0.19	5			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Aluminum	Total	=	52.6	µg/L	EPA 200.8	0.19	5			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Aluminum	Total	=	105	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Aluminum	Total	DNQ	1.4	µg/L	EPA 200.8	0.19	5			IP
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Aluminum	Total	=	982	µg/L	EPA 200.8	0.19	5			GB
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Aluminum	Total	=	994	µg/L	EPA 200.8	0.19	5			GB
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Aluminum	Total	=	218	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Aluminum	Total	=	195	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Aluminum	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Aluminum	Total	=	5060	µg/L	EPA 200.8	0.19	5			GB
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Aluminum	Total	=	1460	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Aluminum	Total	=	5330	µg/L	EPA 200.8	0.19	5			GB
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Aluminum	Total	=	2000	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Aluminum	Total	=	5	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Aluminum	Total	=	9060	µg/L	EPA 200.8	0.19	5			GB
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Aluminum	Total	=	8940	µg/L	EPA 200.8	0.19	5			GB
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Aluminum	Total	=	7940	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Aluminum	Total	=	7710	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Aluminum	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Antimony	Dissolved	=	50.4	µg/L	EPA 200.8	0.008	0.5			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Antimony	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Antimony	Dissolved	DNQ	0.0148	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Antimony	Dissolved	=	50.5	µg/L	EPA 200.8	0.008	0.5			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Antimony	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Antimony	Dissolved	DNQ	0.0099	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-2	Lab	LCS	11/9/2010	Metal	Antimony	Total	=	50.4	µg/L	EPA 200.8	0.008	0.5			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Antimony	Total	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Antimony	Total	DNQ	0.0148	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Antimony	Total	=	50.5	µg/L	EPA 200.8	0.008	0.5			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Antimony	Total	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Antimony	Total	DNQ	0.0099	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Antimony	Total	=	47.7	µg/L	EPA 200.8	0.008	0.5			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Antimony	Total	=	48.2	µg/L	EPA 200.8	0.008	0.5			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Antimony	Total	=	95	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Antimony	Total	=	94	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Antimony	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Antimony	Total	=	41.7	µg/L	EPA 200.8	0.008	0.5			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Antimony	Total	=	82	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Antimony	Total	=	39.6	µg/L	EPA 200.8	0.008	0.5			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Antimony	Total	=	77	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Antimony	Total	=	5	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Antimony	Total	=	28.9	µg/L	EPA 200.8	0.008	0.5			GB
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Antimony	Total	=	29.6	µg/L	EPA 200.8	0.008	0.5			GB
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Antimony	Total	=	58	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Antimony	Total	=	56	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Antimony	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Arsenic	Dissolved	=	48.3	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Arsenic	Dissolved	=	97	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Arsenic	Dissolved	<	0.014	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Arsenic	Dissolved	=	49.6	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Arsenic	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Arsenic	Dissolved	<	0.014	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	Lab	LCS	11/9/2010	Metal	Arsenic	Total	=	48.3	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Arsenic	Total	=	97	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Arsenic	Total	<	0.014	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Arsenic	Total	=	49.6	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Arsenic	Total	=	99	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Arsenic	Total	<	0.014	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Arsenic	Total	=	53.2	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Arsenic	Total	=	54	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Arsenic	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Arsenic	Total	=	101	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Arsenic	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Arsenic	Total	=	54.7	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Arsenic	Total	=	101	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Arsenic	Total	=	53.7	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Arsenic	Total	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Arsenic	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Arsenic	Total	=	51.1	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Arsenic	Total	=	50.8	µg/L	EPA 200.8	0.014	0.4			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Arsenic	Total	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Arsenic	Total	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Arsenic	Total	=	0.6	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/10/2010	Metal	Barium	Total	=	50.2	µg/L	EPA 200.8	0.024	0.5			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Barium	Total	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Barium	Total	<	0.024	µg/L	EPA 200.8	0.024	0.5			X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Barium	Total	=	85.8	µg/L	EPA 200.8	0.024	0.5			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Barium	Total	=	86.2	µg/L	EPA 200.8	0.024	0.5			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Barium	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Barium	Total	=	102	%	EPA 200.8	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Barium	Total	=	0.5	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Barium	Total	=	165	µg/L	EPA 200.8	0.024	0.5			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Barium	Total	=	107	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Barium	Total	=	168	µg/L	EPA 200.8	0.024	0.5			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Barium	Total	=	113	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Barium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Beryllium	Dissolved	=	50.2	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Beryllium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Beryllium	Dissolved	=	50.7	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Beryllium	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	Lab	LCS	11/9/2010	Metal	Beryllium	Total	=	50.2	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Beryllium	Total	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Beryllium	Total	=	50.7	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Beryllium	Total	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Beryllium	Total	=	47.9	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Beryllium	Total	=	49.9	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Beryllium	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Beryllium	Total	=	96	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Beryllium	Total	=	4	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Beryllium	Total	=	51.9	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Beryllium	Total	=	104	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Beryllium	Total	=	51.1	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Beryllium	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Beryllium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Beryllium	Total	=	48	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Beryllium	Total	=	47.2	µg/L	EPA 200.8	0.022	0.1			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Beryllium	Total	=	94	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Beryllium	Total	=	95	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Beryllium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Cadmium	Dissolved	=	51.8	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Cadmium	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Cadmium	Dissolved	<	0.013	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Cadmium	Dissolved	=	51.7	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Cadmium	Dissolved	=	103	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Cadmium	Dissolved	<	0.013	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	Lab	LCS	11/9/2010	Metal	Cadmium	Total	=	51.8	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Cadmium	Total	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Cadmium	Total	<	0.013	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Cadmium	Total	=	51.7	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Cadmium	Total	=	103	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Cadmium	Total	<	0.013	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Cadmium	Total	=	45	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Cadmium	Total	=	44.8	µg/L	EPA 200.8	0.013	0.1			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Cadmium	Total	=	89	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Cadmium	Total	=	89	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Cadmium	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Cadmium	Total	=	50.7	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Cadmium	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Cadmium	Total	=	50.6	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Cadmium	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Cadmium	Total	=	0.2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Cadmium	Total	=	51	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Cadmium	Total	=	50.5	µg/L	EPA 200.8	0.013	0.1			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Cadmium	Total	=	98	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Cadmium	Total	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Cadmium	Total	=	0.9	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Chromium	Dissolved	=	49.8	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Chromium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Chromium	Dissolved	<	0.012	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Chromium	Dissolved	=	49.6	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Chromium	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Chromium	Dissolved	<	0.012	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	Lab	LCS	11/9/2010	Metal	Chromium	Total	=	49.8	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Chromium	Total	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Chromium	Total	<	0.012	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Chromium	Total	=	49.6	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Chromium	Total	=	99	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Chromium	Total	<	0.012	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Chromium	Total	=	59.8	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Chromium	Total	=	61.4	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Chromium	Total	=	117	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Chromium	Total	=	114	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Chromium	Total	=	3	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Chromium	Total	=	64.6	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Chromium	Total	=	109	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Chromium	Total	=	63.4	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Chromium	Total	=	107	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Chromium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Chromium	Total	=	87.4	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Chromium	Total	=	85.7	µg/L	EPA 200.8	0.012	0.2			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Chromium	Total	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Chromium	Total	=	101	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Chromium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Metal	Chromium VI	n/a	=	5.33	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Metal	Chromium VI	n/a	=	5.23	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Metal	Chromium VI	n/a	=	101	%	EPA 218.6	-88	-88	88	112	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Metal	Chromium VI	n/a	=	103	%	EPA 218.6	-88	-88	88	112	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Metal	Chromium VI	n/a	=	2	%	EPA 218.6	-88	-88	0	10	X
2010/11-2	Lab	LCS	11/5/2010	Metal	Chromium VI	n/a	=	5.17	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-2	Lab	LCS, rec	11/5/2010	Metal	Chromium VI	n/a	=	103	%	EPA 218.6	-88	-88	90	110	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	method blank	11/5/2010	Metal	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-2	MO-FIL	matrix spike	11/5/2010	Metal	Chromium VI	n/a	=	5.46	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-2	MO-FIL	matrix spike dup	11/5/2010	Metal	Chromium VI	n/a	=	5.47	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/5/2010	Metal	Chromium VI	n/a	=	101	%	EPA 218.6	-88	-88	88	112	X
2010/11-2	MO-FIL	matrix spike, rec	11/5/2010	Metal	Chromium VI	n/a	=	101	%	EPA 218.6	-88	-88	88	112	X
2010/11-2	MO-FIL	matrix spike, RPD	11/5/2010	Metal	Chromium VI	n/a	=	0.2	%	EPA 218.6	-88	-88	0	10	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Copper	Dissolved	=	49.8	µg/L	EPA 200.8	0.022	0.5			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Copper	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Copper	Dissolved	DNQ	0.127	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Copper	Dissolved	=	49.8	µg/L	EPA 200.8	0.022	0.5			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Copper	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Copper	Dissolved	DNQ	0.074	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-2	Lab	LCS	11/9/2010	Metal	Copper	Total	=	49.8	µg/L	EPA 200.8	0.022	0.5			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Copper	Total	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Copper	Total	DNQ	0.127	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Copper	Total	=	49.8	µg/L	EPA 200.8	0.022	0.5			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Copper	Total	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Copper	Total	DNQ	0.074	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Copper	Total	=	61.7	µg/L	EPA 200.8	0.022	0.5			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Copper	Total	=	62.4	µg/L	EPA 200.8	0.022	0.5			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Copper	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Copper	Total	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Copper	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Copper	Total	=	77.5	µg/L	EPA 200.8	0.022	0.5			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Copper	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Copper	Total	=	77.7	µg/L	EPA 200.8	0.022	0.5			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Copper	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Copper	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Copper	Total	=	91.6	µg/L	EPA 200.8	0.022	0.5			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Copper	Total	=	89.1	µg/L	EPA 200.8	0.022	0.5			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Copper	Total	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Copper	Total	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Copper	Total	=	3	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Iron	Dissolved	=	1070	µg/L	EPA 200.8	0.6	20			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Iron	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Iron	Dissolved	<	0.6	µg/L	EPA 200.8	0.6	20			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Iron	Dissolved	=	1060	µg/L	EPA 200.8	0.6	20			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Iron	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Iron	Dissolved	<	0.6	µg/L	EPA 200.8	0.6	20			X
2010/11-2	Lab	LCS	11/9/2010	Metal	Iron	Total	=	1070	µg/L	EPA 200.8	0.6	20			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Iron	Total	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Iron	Total	<	0.6	µg/L	EPA 200.8	0.6	20			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Iron	Total	=	1060	µg/L	EPA 200.8	0.6	20			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Iron	Total	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Iron	Total	<	0.6	µg/L	EPA 200.8	0.6	20			X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Iron	Total	=	6490	µg/L	EPA 200.8	0.6	20			GB
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Iron	Total	=	6570	µg/L	EPA 200.8	0.6	20			GB

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Iron	Total	=	152	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Iron	Total	=	144	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Iron	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Iron	Total	=	7640	µg/L	EPA 200.8	0.6	20			GB
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Iron	Total	=	137	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Iron	Total	=	7950	µg/L	EPA 200.8	0.6	20			GB
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Iron	Total	=	167	%	EPA 200.8	-88	-88	70	130	GB
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Iron	Total	=	4	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Iron	Total	=	18800	µg/L	EPA 200.8	0.6	20			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Iron	Total	=	18500	µg/L	EPA 200.8	0.6	20			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Iron	Total	=	96	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Iron	Total	=	127	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Iron	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Lead	Dissolved	=	48.8	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Lead	Dissolved	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Lead	Dissolved	=	49.6	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Lead	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	Lab	LCS	11/9/2010	Metal	Lead	Total	=	48.8	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Lead	Total	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Lead	Total	<	0.017	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Lead	Total	=	49.6	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Lead	Total	=	99	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Lead	Total	<	0.017	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Lead	Total	=	63	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Lead	Total	=	63.8	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Lead	Total	=	110	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Lead	Total	=	109	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Lead	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Lead	Total	=	61.3	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Lead	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Lead	Total	=	61.3	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Lead	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Lead	Total	=	0.1	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Lead	Total	=	67	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Lead	Total	=	67.7	µg/L	EPA 200.8	0.017	0.2			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Lead	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Lead	Total	=	101	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Lead	Total	=	0.9	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/11/2010	Metal	Mercury	Dissolved	=	987	ng/L	EPA 245.1	3.9	50			X
2010/11-2	000NONPJ	matrix spike	11/11/2010	Metal	Mercury	Dissolved	=	1050	ng/L	EPA 245.1	3.9	50			X
2010/11-2	000NONPJ	matrix spike dup	11/11/2010	Metal	Mercury	Dissolved	=	1000	ng/L	EPA 245.1	3.9	50			X
2010/11-2	000NONPJ	matrix spike dup	11/11/2010	Metal	Mercury	Dissolved	=	990	ng/L	EPA 245.1	3.9	50			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/11/2010	Metal	Mercury	Dissolved	=	99	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/11/2010	Metal	Mercury	Dissolved	=	100	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/11/2010	Metal	Mercury	Dissolved	=	105	%	EPA 245.1	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, rec	11/11/2010	Metal	Mercury	Dissolved	=	99	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/11/2010	Metal	Mercury	Dissolved	=	1	%	EPA 245.1	-88	-88	0	20	X
2010/11-2	000NONPJ	matrix spike, RPD	11/11/2010	Metal	Mercury	Dissolved	=	6	%	EPA 245.1	-88	-88	0	20	X
2010/11-2	Lab	LCS	11/11/2010	Metal	Mercury	Dissolved	=	1080	ng/L	EPA 245.1	3.9	50			X
2010/11-2	Lab	LCS	11/11/2010	Metal	Mercury	Dissolved	=	1000	ng/L	EPA 245.1	3.9	50			X
2010/11-2	Lab	LCS, rec	11/11/2010	Metal	Mercury	Dissolved	=	100	%	EPA 245.1	-88	-88	85	115	X
2010/11-2	Lab	LCS, rec	11/11/2010	Metal	Mercury	Dissolved	=	108	%	EPA 245.1	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/11/2010	Metal	Mercury	Dissolved	DNQ	24	ng/L	EPA 245.1	3.9	50			IP
2010/11-2	Lab	method blank	11/11/2010	Metal	Mercury	Dissolved	DNQ	25	ng/L	EPA 245.1	3.9	50			IP
2010/11-2	ME-VR2	matrix spike	11/11/2010	Metal	Mercury	Dissolved	=	1010	ng/L	EPA 245.1	3.9	50			X
2010/11-2	ME-VR2	matrix spike dup	11/11/2010	Metal	Mercury	Dissolved	=	1010	ng/L	EPA 245.1	3.9	50			X
2010/11-2	ME-VR2	matrix spike dup, rec	11/11/2010	Metal	Mercury	Dissolved	=	98	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	ME-VR2	matrix spike, rec	11/11/2010	Metal	Mercury	Dissolved	=	98	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	ME-VR2	matrix spike, RPD	11/11/2010	Metal	Mercury	Dissolved	=	0	%	EPA 245.1	-88	-88	0	20	X
2010/11-2	MO-CAM	matrix spike	11/11/2010	Metal	Mercury	Dissolved	=	971	ng/L	EPA 245.1	3.9	50			X
2010/11-2	MO-CAM	matrix spike dup	11/11/2010	Metal	Mercury	Dissolved	=	979	ng/L	EPA 245.1	3.9	50			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/11/2010	Metal	Mercury	Dissolved	=	95	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	MO-CAM	matrix spike, rec	11/11/2010	Metal	Mercury	Dissolved	=	94	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	MO-CAM	matrix spike, RPD	11/11/2010	Metal	Mercury	Dissolved	=	0.8	%	EPA 245.1	-88	-88	0	20	X
2010/11-2	000NONPJ	matrix spike	11/11/2010	Metal	Mercury	Total	=	987	ng/L	EPA 245.1	3.9	50			X
2010/11-2	000NONPJ	matrix spike	11/11/2010	Metal	Mercury	Total	=	1050	ng/L	EPA 245.1	3.9	50			X
2010/11-2	000NONPJ	matrix spike dup	11/11/2010	Metal	Mercury	Total	=	990	ng/L	EPA 245.1	3.9	50			X
2010/11-2	000NONPJ	matrix spike dup	11/11/2010	Metal	Mercury	Total	=	1000	ng/L	EPA 245.1	3.9	50			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/11/2010	Metal	Mercury	Total	=	96	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/11/2010	Metal	Mercury	Total	=	97	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/11/2010	Metal	Mercury	Total	=	96	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/11/2010	Metal	Mercury	Total	=	102	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/11/2010	Metal	Mercury	Total	=	6	%	EPA 245.1	-88	-88	0	20	X
2010/11-2	000NONPJ	matrix spike, RPD	11/11/2010	Metal	Mercury	Total	=	1	%	EPA 245.1	-88	-88	0	20	X
2010/11-2	Lab	LCS	11/11/2010	Metal	Mercury	Total	=	1080	ng/L	EPA 245.1	3.9	50			X
2010/11-2	Lab	LCS	11/11/2010	Metal	Mercury	Total	=	1000	ng/L	EPA 245.1	3.9	50			X
2010/11-2	Lab	LCS, rec	11/11/2010	Metal	Mercury	Total	=	100	%	EPA 245.1	-88	-88	85	115	X
2010/11-2	Lab	LCS, rec	11/11/2010	Metal	Mercury	Total	=	108	%	EPA 245.1	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/11/2010	Metal	Mercury	Total	DNQ	25	ng/L	EPA 245.1	3.9	50			IP
2010/11-2	Lab	method blank	11/11/2010	Metal	Mercury	Total	DNQ	24	ng/L	EPA 245.1	3.9	50			IP
2010/11-2	ME-VR2	matrix spike	11/11/2010	Metal	Mercury	Total	=	1010	ng/L	EPA 245.1	3.9	50			X
2010/11-2	ME-VR2	matrix spike dup	11/11/2010	Metal	Mercury	Total	=	1010	ng/L	EPA 245.1	3.9	50			X
2010/11-2	ME-VR2	matrix spike dup, rec	11/11/2010	Metal	Mercury	Total	=	98	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	ME-VR2	matrix spike, rec	11/11/2010	Metal	Mercury	Total	=	98	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	ME-VR2	matrix spike, RPD	11/11/2010	Metal	Mercury	Total	=	0	%	EPA 245.1	-88	-88	0	20	X
2010/11-2	MO-CAM	matrix spike	11/11/2010	Metal	Mercury	Total	=	971	ng/L	EPA 245.1	3.9	50			X
2010/11-2	MO-CAM	matrix spike dup	11/11/2010	Metal	Mercury	Total	=	979	ng/L	EPA 245.1	3.9	50			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/11/2010	Metal	Mercury	Total	=	92	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	MO-CAM	matrix spike, rec	11/11/2010	Metal	Mercury	Total	=	91	%	EPA 245.1	-88	-88	70	130	X
2010/11-2	MO-CAM	matrix spike, RPD	11/11/2010	Metal	Mercury	Total	=	0.8	%	EPA 245.1	-88	-88	0	20	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Nickel	Dissolved	=	48.2	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Nickel	Dissolved	=	96	%	EPA 200.8	-88	-88	85	115	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	method blank	11/9/2010	Metal	Nickel	Dissolved	DNQ	0.033	µg/L	EPA 200.8	0.011	0.8			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Nickel	Dissolved	=	49.7	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Nickel	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Nickel	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	Lab	LCS	11/9/2010	Metal	Nickel	Total	=	48.2	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Nickel	Total	=	96	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Nickel	Total	DNQ	0.033	µg/L	EPA 200.8	0.011	0.8			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Nickel	Total	=	49.7	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Nickel	Total	=	99	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Nickel	Total	<	0.011	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Nickel	Total	=	53.2	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Nickel	Total	=	55.1	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Nickel	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Nickel	Total	=	98	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Nickel	Total	=	4	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Nickel	Total	=	62.3	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Nickel	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Nickel	Total	=	61.6	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Nickel	Total	=	101	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Nickel	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Nickel	Total	=	85	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Nickel	Total	=	83.7	µg/L	EPA 200.8	0.011	0.8			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Nickel	Total	=	88	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Nickel	Total	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Nickel	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Selenium	Dissolved	=	52	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Selenium	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Selenium	Dissolved	DNQ	0.0288	µg/L	EPA 200.8	0.017	0.4			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Selenium	Dissolved	=	51.9	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Selenium	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Selenium	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	Lab	LCS	11/9/2010	Metal	Selenium	Total	=	52	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Selenium	Total	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Selenium	Total	DNQ	0.0288	µg/L	EPA 200.8	0.017	0.4			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Selenium	Total	=	51.9	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Selenium	Total	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Selenium	Total	<	0.017	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Selenium	Total	=	50.5	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Selenium	Total	=	50.5	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Selenium	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Selenium	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Selenium	Total	=	0.02	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Selenium	Total	=	53	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Selenium	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Selenium	Total	=	52.4	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Selenium	Total	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Selenium	Total	=	1	%	EPA 200.8	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Selenium	Total	=	47.8	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Selenium	Total	=	47.7	µg/L	EPA 200.8	0.017	0.4			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Selenium	Total	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Selenium	Total	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Selenium	Total	=	0.2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Silver	Dissolved	=	51.4	µg/L	EPA 200.8	0.008	0.2			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Silver	Dissolved	=	103	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Silver	Dissolved	DNQ	0.0131	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Silver	Dissolved	=	52	µg/L	EPA 200.8	0.008	0.2			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Silver	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Silver	Dissolved	DNQ	0.0281	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-2	Lab	LCS	11/9/2010	Metal	Silver	Total	=	51.4	µg/L	EPA 200.8	0.008	0.2			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Silver	Total	=	103	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Silver	Total	DNQ	0.0131	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Silver	Total	=	52	µg/L	EPA 200.8	0.008	0.2			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Silver	Total	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Silver	Total	DNQ	0.0281	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Silver	Total	=	45.9	µg/L	EPA 200.8	0.008	0.2			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Silver	Total	=	46.3	µg/L	EPA 200.8	0.008	0.2			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Silver	Total	=	93	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Silver	Total	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Silver	Total	=	0.9	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Silver	Total	=	51.3	µg/L	EPA 200.8	0.008	0.2			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Silver	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Silver	Total	=	51	µg/L	EPA 200.8	0.008	0.2			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Silver	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Silver	Total	=	0.6	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Silver	Total	=	48.8	µg/L	EPA 200.8	0.008	0.2			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Silver	Total	=	48.9	µg/L	EPA 200.8	0.008	0.2			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Silver	Total	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Silver	Total	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Silver	Total	=	0.2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Thallium	Dissolved	=	49	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Thallium	Dissolved	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Thallium	Dissolved	=	50.2	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Thallium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	Lab	LCS	11/9/2010	Metal	Thallium	Total	=	49	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Thallium	Total	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	Lab	LCS	11/10/2010	Metal	Thallium	Total	=	50.2	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Thallium	Total	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Thallium	Total	=	55.8	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Thallium	Total	=	56.6	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Thallium	Total	=	113	%	EPA 200.8	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Thallium	Total	=	112	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Thallium	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Thallium	Total	=	51.6	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Thallium	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Thallium	Total	=	50.5	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Thallium	Total	=	101	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Thallium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Thallium	Total	=	51.3	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Thallium	Total	=	51.6	µg/L	EPA 200.8	0.02	0.2			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Thallium	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Thallium	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Thallium	Total	=	0.5	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/9/2010	Metal	Zinc	Dissolved	=	54.2	µg/L	EPA 200.8	0.3	5			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Zinc	Dissolved	=	108	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Zinc	Dissolved	DNQ	0.648	µg/L	EPA 200.8	0.3	5			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Zinc	Dissolved	=	51.9	µg/L	EPA 200.8	0.3	5			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Zinc	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Zinc	Dissolved	<	0.3	µg/L	EPA 200.8	0.3	5			X
2010/11-2	Lab	LCS	11/9/2010	Metal	Zinc	Total	=	54.2	µg/L	EPA 200.8	0.3	5			X
2010/11-2	Lab	LCS, rec	11/9/2010	Metal	Zinc	Total	=	108	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/9/2010	Metal	Zinc	Total	DNQ	0.648	µg/L	EPA 200.8	0.3	5			IP
2010/11-2	Lab	LCS	11/10/2010	Metal	Zinc	Total	=	51.9	µg/L	EPA 200.8	0.3	5			X
2010/11-2	Lab	LCS, rec	11/10/2010	Metal	Zinc	Total	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-2	Lab	method blank	11/10/2010	Metal	Zinc	Total	<	0.3	µg/L	EPA 200.8	0.3	5			X
2010/11-2	MO-HUE	matrix spike	11/10/2010	Metal	Zinc	Total	=	112	µg/L	EPA 200.8	0.3	5			X
2010/11-2	MO-HUE	matrix spike dup	11/10/2010	Metal	Zinc	Total	=	111	µg/L	EPA 200.8	0.3	5			X
2010/11-2	MO-HUE	matrix spike dup, rec	11/10/2010	Metal	Zinc	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, rec	11/10/2010	Metal	Zinc	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-HUE	matrix spike, RPD	11/10/2010	Metal	Zinc	Total	=	0.9	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-MPK	matrix spike	11/10/2010	Metal	Zinc	Total	=	195	µg/L	EPA 200.8	0.3	5			X
2010/11-2	MO-MPK	matrix spike, rec	11/10/2010	Metal	Zinc	Total	=	110	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike dup	11/11/2010	Metal	Zinc	Total	=	197	µg/L	EPA 200.8	0.3	5			X
2010/11-2	MO-MPK	matrix spike dup, rec	11/11/2010	Metal	Zinc	Total	=	114	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-MPK	matrix spike, RPD	11/11/2010	Metal	Zinc	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	MO-THO	matrix spike	11/9/2010	Metal	Zinc	Total	=	241	µg/L	EPA 200.8	0.3	5			X
2010/11-2	MO-THO	matrix spike dup	11/9/2010	Metal	Zinc	Total	=	235	µg/L	EPA 200.8	0.3	5			X
2010/11-2	MO-THO	matrix spike dup, rec	11/9/2010	Metal	Zinc	Total	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, rec	11/9/2010	Metal	Zinc	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-2	MO-THO	matrix spike, RPD	11/9/2010	Metal	Zinc	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/12/2010	Nutrient	Ammonia as N	n/a	=	1.09	mg/L	EPA 350.1	0.048	0.1			X
2010/11-2	000NONPJ	matrix spike	11/12/2010	Nutrient	Ammonia as N	n/a	=	1.09	mg/L	EPA 350.1	0.048	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/12/2010	Nutrient	Ammonia as N	n/a	=	1.08	mg/L	EPA 350.1	0.048	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/12/2010	Nutrient	Ammonia as N	n/a	=	1.1	mg/L	EPA 350.1	0.048	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/12/2010	Nutrient	Ammonia as N	n/a	=	103	%	EPA 350.1	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/12/2010	Nutrient	Ammonia as N	n/a	=	102	%	EPA 350.1	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, rec	11/12/2010	Nutrient	Ammonia as N	n/a	=	103	%	EPA 350.1	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, rec	11/12/2010	Nutrient	Ammonia as N	n/a	=	102	%	EPA 350.1	-88	-88	90	110	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, RPD	11/12/2010	Nutrient	Ammonia as N	n/a	=	0.9	%	EPA 350.1	-88	-88	0	10	X
2010/11-2	000NONPJ	matrix spike, RPD	11/12/2010	Nutrient	Ammonia as N	n/a	=	0.9	%	EPA 350.1	-88	-88	0	10	X
2010/11-2	Lab	LCS	11/12/2010	Nutrient	Ammonia as N	n/a	=	1	mg/L	EPA 350.1	0.048	0.1			X
2010/11-2	Lab	LCS, rec	11/12/2010	Nutrient	Ammonia as N	n/a	=	100	%	EPA 350.1	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/12/2010	Nutrient	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1			X
2010/11-2	000NONPJ	matrix spike	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	2.52	mg/L	EPA 353.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	2.63	mg/L	EPA 353.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike dup	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	2.66	mg/L	EPA 353.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike dup	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	2.51	mg/L	EPA 353.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	97	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike dup, rec	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	103	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, rec	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	102	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, rec	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	98	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, RPD	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	X
2010/11-2	000NONPJ	matrix spike, RPD	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	0.5	%	EPA 353.2	-88	-88	0	20	X
2010/11-2	000NONPJ	matrix spike	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	12.6	mg/L	EPA 353.2	0.02	0.2			D
2010/11-2	000NONPJ	matrix spike	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	2.47	mg/L	EPA 353.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	2.51	mg/L	EPA 353.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	12.9	mg/L	EPA 353.2	0.02	0.2			D
2010/11-2	000NONPJ	matrix spike dup, rec	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	95	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	107	%	EPA 353.2	-88	-88	90	110	D
2010/11-2	000NONPJ	matrix spike, rec	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	91	%	EPA 353.2	-88	-88	90	110	D
2010/11-2	000NONPJ	matrix spike, rec	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	93	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, RPD	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	2	%	EPA 353.2	-88	-88	0	20	D
2010/11-2	000NONPJ	matrix spike, RPD	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	2	%	EPA 353.2	-88	-88	0	20	X
2010/11-2	Lab	LCS	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	1.06	mg/L	EPA 353.2	0.01	0.1			X
2010/11-2	Lab	LCS, rec	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	106	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	Lab	method blank	10/30/2010	Nutrient	Nitrate + Nitrite as N	n/a	DNQ	0.053	mg/L	EPA 353.2	0.01	0.1			IP
2010/11-2	Lab	LCS	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	0.984	mg/L	EPA 353.2	0.01	0.1			X
2010/11-2	Lab	LCS, rec	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	98	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/1/2010	Nutrient	Nitrate + Nitrite as N	n/a	<	0.01	mg/L	EPA 353.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike	10/30/2010	Nutrient	Nitrate as N	n/a	=	2.63	mg/L	EPA 353.2	0.041	0.1			X
2010/11-2	000NONPJ	matrix spike	10/30/2010	Nutrient	Nitrate as N	n/a	=	2.52	mg/L	EPA 353.2	0.041	0.1			X
2010/11-2	000NONPJ	matrix spike dup	10/30/2010	Nutrient	Nitrate as N	n/a	=	2.66	mg/L	EPA 353.2	0.041	0.1			X
2010/11-2	000NONPJ	matrix spike dup	10/30/2010	Nutrient	Nitrate as N	n/a	=	2.51	mg/L	EPA 353.2	0.041	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	10/30/2010	Nutrient	Nitrate as N	n/a	=	97	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike dup, rec	10/30/2010	Nutrient	Nitrate as N	n/a	=	103	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, rec	10/30/2010	Nutrient	Nitrate as N	n/a	=	98	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, rec	10/30/2010	Nutrient	Nitrate as N	n/a	=	102	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, RPD	10/30/2010	Nutrient	Nitrate as N	n/a	=	0.5	%	EPA 353.2	-88	-88	0	20	X
2010/11-2	000NONPJ	matrix spike, RPD	10/30/2010	Nutrient	Nitrate as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	X
2010/11-2	000NONPJ	matrix spike	11/1/2010	Nutrient	Nitrate as N	n/a	=	12.6	mg/L	EPA 353.2	0.082	0.2			D
2010/11-2	000NONPJ	matrix spike	11/1/2010	Nutrient	Nitrate as N	n/a	=	2.47	mg/L	EPA 353.2	0.041	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/1/2010	Nutrient	Nitrate as N	n/a	=	2.51	mg/L	EPA 353.2	0.041	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/1/2010	Nutrient	Nitrate as N	n/a	=	12.9	mg/L	EPA 353.2	0.082	0.2			D
2010/11-2	000NONPJ	matrix spike dup, rec	11/1/2010	Nutrient	Nitrate as N	n/a	=	107	%	EPA 353.2	-88	-88	90	110	D
2010/11-2	000NONPJ	matrix spike dup, rec	11/1/2010	Nutrient	Nitrate as N	n/a	=	95	%	EPA 353.2	-88	-88	90	110	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, rec	11/1/2010	Nutrient	Nitrate as N	n/a	=	91	%	EPA 353.2	-88	-88	90	110	D
2010/11-2	000NONPJ	matrix spike, rec	11/1/2010	Nutrient	Nitrate as N	n/a	=	93	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, RPD	11/1/2010	Nutrient	Nitrate as N	n/a	=	2	%	EPA 353.2	-88	-88	0	20	D
2010/11-2	000NONPJ	matrix spike, RPD	11/1/2010	Nutrient	Nitrate as N	n/a	=	2	%	EPA 353.2	-88	-88	0	20	X
2010/11-2	Lab	LCS	10/30/2010	Nutrient	Nitrate as N	n/a	=	1.06	mg/L	EPA 353.2	0.041	0.1			X
2010/11-2	Lab	LCS, rec	10/30/2010	Nutrient	Nitrate as N	n/a	=	106	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	Lab	method blank	10/30/2010	Nutrient	Nitrate as N	n/a	DNQ	0.053	mg/L	EPA 353.2	0.041	0.1			IP
2010/11-2	Lab	LCS	11/1/2010	Nutrient	Nitrate as N	n/a	=	0.984	mg/L	EPA 353.2	0.041	0.1			X
2010/11-2	Lab	LCS, rec	11/1/2010	Nutrient	Nitrate as N	n/a	=	98	%	EPA 353.2	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/1/2010	Nutrient	Nitrate as N	n/a	<	0.041	mg/L	EPA 353.2	0.041	0.1			X
2010/11-2	Lab	LCS	11/18/2010	Nutrient	Phosphorus as P	Dissolved	=	0.047	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-2	Lab	LCS, rec	11/18/2010	Nutrient	Phosphorus as P	Dissolved	=	94	%	EPA 365.1	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/18/2010	Nutrient	Phosphorus as P	Dissolved	DNQ	0.0053	mg/L	EPA 365.1	0.0014	0.01			IP
2010/11-2	000NONPJ	matrix spike	11/16/2010	Nutrient	Phosphorus as P	Total	=	0.139	mg/L	EPA 365.1	0.0014	0.01			GB
2010/11-2	000NONPJ	matrix spike	11/16/2010	Nutrient	Phosphorus as P	Total	=	0.242	mg/L	EPA 365.1	0.0028	0.02			D,GB
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Nutrient	Phosphorus as P	Total	=	0.278	mg/L	EPA 365.1	0.0028	0.02			D,GB
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Nutrient	Phosphorus as P	Total	=	0.133	mg/L	EPA 365.1	0.0014	0.01			GB
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Nutrient	Phosphorus as P	Total	=	111	%	EPA 365.1	-88	-88	90	110	GB
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Nutrient	Phosphorus as P	Total	=	186	%	EPA 365.1	-88	-88	90	110	D,GB
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Nutrient	Phosphorus as P	Total	=	114	%	EPA 365.1	-88	-88	90	110	D,GB
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Nutrient	Phosphorus as P	Total	=	123	%	EPA 365.1	-88	-88	90	110	GB
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Nutrient	Phosphorus as P	Total	=	4	%	EPA 365.1	-88	-88	0	10	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Nutrient	Phosphorus as P	Total	=	14	%	EPA 365.1	-88	-88	0	10	D,IL
2010/11-2	Lab	LCS	11/16/2010	Nutrient	Phosphorus as P	Total	=	0.0495	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-2	Lab	LCS, rec	11/16/2010	Nutrient	Phosphorus as P	Total	=	99	%	EPA 365.1	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/16/2010	Nutrient	Phosphorus as P	Total	DNQ	0.0019	mg/L	EPA 365.1	0.0014	0.01			IP
2010/11-2	Lab	LCS	11/18/2010	Nutrient	Phosphorus as P	Total	=	0.047	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-2	Lab	LCS, rec	11/18/2010	Nutrient	Phosphorus as P	Total	=	94	%	EPA 365.1	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/18/2010	Nutrient	Phosphorus as P	Total	DNQ	0.0053	mg/L	EPA 365.1	0.0014	0.01			IP
2010/11-2	ME-VR2	matrix spike	11/18/2010	Nutrient	Phosphorus as P	Total	=	0.232	mg/L	EPA 365.1	0.0028	0.02			D,GB
2010/11-2	ME-VR2	matrix spike dup	11/18/2010	Nutrient	Phosphorus as P	Total	=	0.228	mg/L	EPA 365.1	0.0028	0.02			D,GB
2010/11-2	ME-VR2	matrix spike dup, rec	11/18/2010	Nutrient	Phosphorus as P	Total	=	124	%	EPA 365.1	-88	-88	90	110	D,GB
2010/11-2	ME-VR2	matrix spike, rec	11/18/2010	Nutrient	Phosphorus as P	Total	=	132	%	EPA 365.1	-88	-88	90	110	D,GB
2010/11-2	ME-VR2	matrix spike, RPD	11/18/2010	Nutrient	Phosphorus as P	Total	=	2	%	EPA 365.1	-88	-88	0	10	D
2010/11-2	MO-FIL	matrix spike	11/18/2010	Nutrient	Phosphorus as P	Total	=	0.368	mg/L	EPA 365.1	0.0028	0.02			D,GB
2010/11-2	MO-FIL	matrix spike dup	11/18/2010	Nutrient	Phosphorus as P	Total	=	0.354	mg/L	EPA 365.1	0.0028	0.02			D
2010/11-2	MO-FIL	matrix spike dup, rec	11/18/2010	Nutrient	Phosphorus as P	Total	=	104	%	EPA 365.1	-88	-88	90	110	D
2010/11-2	MO-FIL	matrix spike, rec	11/18/2010	Nutrient	Phosphorus as P	Total	=	132	%	EPA 365.1	-88	-88	90	110	D,GB
2010/11-2	MO-FIL	matrix spike, RPD	11/18/2010	Nutrient	Phosphorus as P	Total	=	4	%	EPA 365.1	-88	-88	0	10	D
2010/11-2	000NONPJ	matrix spike	11/12/2010	Nutrient	TKN	n/a	=	1.79	mg/L	EPA 351.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike	11/12/2010	Nutrient	TKN	n/a	=	1.76	mg/L	EPA 351.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/12/2010	Nutrient	TKN	n/a	=	1.76	mg/L	EPA 351.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/12/2010	Nutrient	TKN	n/a	=	1.79	mg/L	EPA 351.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/12/2010	Nutrient	TKN	n/a	=	105	%	EPA 351.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/12/2010	Nutrient	TKN	n/a	=	109	%	EPA 351.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, rec	11/12/2010	Nutrient	TKN	n/a	=	108	%	EPA 351.2	-88	-88	90	110	X
2010/11-2	000NONPJ	matrix spike, rec	11/12/2010	Nutrient	TKN	n/a	=	105	%	EPA 351.2	-88	-88	90	110	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, RPD	11/12/2010	Nutrient	TKN	n/a	=	0.2	%	EPA 351.2	-88	-88	0	15	X
2010/11-2	000NONPJ	matrix spike, RPD	11/12/2010	Nutrient	TKN	n/a	=	0.1	%	EPA 351.2	-88	-88	0	15	X
2010/11-2	Lab	LCS	11/9/2010	Nutrient	TKN	n/a	=	0.982	mg/L	EPA 351.2	0.074	0.1			X
2010/11-2	Lab	LCS, rec	11/9/2010	Nutrient	TKN	n/a	=	98	%	EPA 351.2	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/9/2010	Nutrient	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1			X
2010/11-2	Lab	LCS	11/12/2010	Nutrient	TKN	n/a	=	0.944	mg/L	EPA 351.2	0.074	0.1			X
2010/11-2	Lab	LCS, rec	11/12/2010	Nutrient	TKN	n/a	=	94	%	EPA 351.2	-88	-88	90	110	X
2010/11-2	Lab	method blank	11/12/2010	Nutrient	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1			X
2010/11-2	MO-FIL	matrix spike	11/9/2010	Nutrient	TKN	n/a	=	2.46	mg/L	EPA 351.2	0.074	0.1			GB
2010/11-2	MO-FIL	matrix spike dup	11/9/2010	Nutrient	TKN	n/a	=	2.58	mg/L	EPA 351.2	0.074	0.1			GB
2010/11-2	MO-FIL	matrix spike dup, rec	11/9/2010	Nutrient	TKN	n/a	=	130	%	EPA 351.2	-88	-88	90	110	GB
2010/11-2	MO-FIL	matrix spike, rec	11/9/2010	Nutrient	TKN	n/a	=	118	%	EPA 351.2	-88	-88	90	110	GB
2010/11-2	MO-FIL	matrix spike, RPD	11/9/2010	Nutrient	TKN	n/a	=	5	%	EPA 351.2	-88	-88	0	15	X
2010/11-2	MO-HUE	matrix spike	11/9/2010	Nutrient	TKN	n/a	=	2.88	mg/L	EPA 351.2	0.074	0.1			X
2010/11-2	MO-HUE	matrix spike dup	11/9/2010	Nutrient	TKN	n/a	=	3.18	mg/L	EPA 351.2	0.074	0.1			GB
2010/11-2	MO-HUE	matrix spike dup, rec	11/9/2010	Nutrient	TKN	n/a	=	133	%	EPA 351.2	-88	-88	90	110	GB
2010/11-2	MO-HUE	matrix spike, rec	11/9/2010	Nutrient	TKN	n/a	=	103	%	EPA 351.2	-88	-88	90	110	X
2010/11-2	MO-HUE	matrix spike, RPD	11/9/2010	Nutrient	TKN	n/a	=	10	%	EPA 351.2	-88	-88	0	15	X
2010/11-2	Lab	LCS	11/12/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	38.8	µg/L	EPA 625	0.26	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	78	%	EPA 625	-88	-88	44	142	X
2010/11-2	Lab	method blank	11/12/2010	Organic	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	33	µg/L	EPA 625	0.26	5			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	38.3	µg/L	EPA 625	0.26	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	77	%	EPA 625	-88	-88	44	142	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	66	%	EPA 625	-88	-88	44	142	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	15	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	1,2-Dichlorobenzene	n/a	=	39.3	µg/L	EPA 625	0.3	2			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	1,2-Dichlorobenzene	n/a	=	79	%	EPA 625	-88	-88	32	129	X
2010/11-2	Lab	method blank	11/12/2010	Organic	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	1,2-Dichlorobenzene	n/a	=	33.9	µg/L	EPA 625	0.3	2			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	1,2-Dichlorobenzene	n/a	=	39.1	µg/L	EPA 625	0.3	2			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	1,2-Dichlorobenzene	n/a	=	78	%	EPA 625	-88	-88	32	129	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	1,2-Dichlorobenzene	n/a	=	68	%	EPA 625	-88	-88	32	129	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	1,2-Dichlorobenzene	n/a	=	14	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	srgt LCS	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.9	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt LCS dup	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.2	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt LCS dup, rec	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	102	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	srgt LCS, rec	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	109	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	srgt method blank	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.21	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt method blank, rec	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	92	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	srgt LCS	11/5/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt LCS dup	11/5/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.7	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt LCS dup, rec	11/5/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	97	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	srgt LCS, rec	11/5/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	100	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	srgt method blank	11/5/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.5	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt method blank, rec	11/5/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	105	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	ME-CC	srgt environ	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.6	µg/L	EPA 524.2	0	0			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	ME-CC	srgt environ, rec	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	106	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	ME-SCR	srgt environ	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.8	µg/L	EPA 524.2	0	0			X
2010/11-2	ME-SCR	srgt environ, rec	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	108	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	ME-VR2	srgt environ	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.39	µg/L	EPA 524.2	0	0			X
2010/11-2	ME-VR2	srgt environ, rec	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	94	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-CAM	srgt environ	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.5	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-CAM	srgt environ, rec	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	115	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-FIL	srgt environ	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.52	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-FIL	srgt environ, rec	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	95	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-HUE	srgt environ	11/6/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.4	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-HUE	srgt environ, rec	11/6/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	104	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-MPK	srgt environ	11/4/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.54	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-MPK	srgt environ, rec	11/4/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	95	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-OXN	srgt environ	11/4/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.46	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-OXN	srgt environ, rec	11/4/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	95	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-SIM	srgt environ	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.63	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-SIM	srgt environ, rec	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	96	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-SPA	srgt environ	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.6	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-SPA	srgt environ, rec	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	116	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-THO	srgt environ	11/4/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.41	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-THO	srgt environ, rec	11/4/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	94	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-VEN	srgt environ	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.3	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-VEN	srgt environ, rec	11/3/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	113	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/12/2010	Organic	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1			X
2010/11-2	Lab	LCS	11/12/2010	Organic	1,3-Dichlorobenzene	n/a	=	37.6	µg/L	EPA 625	0.36	1			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	1,3-Dichlorobenzene	n/a	=	75	%	EPA 625	-88	-88	0.1	172	X
2010/11-2	Lab	method blank	11/12/2010	Organic	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	1,3-Dichlorobenzene	n/a	=	32.5	µg/L	EPA 625	0.36	1			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	1,3-Dichlorobenzene	n/a	=	37.8	µg/L	EPA 625	0.36	1			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	1,3-Dichlorobenzene	n/a	=	76	%	EPA 625	-88	-88	0.1	172	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	1,3-Dichlorobenzene	n/a	=	65	%	EPA 625	-88	-88	0.1	172	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	1,3-Dichlorobenzene	n/a	=	15	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	srgt LCS	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.19	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	104	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt matrix spike	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.59	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.12	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup, rec	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	102	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt matrix spike, rec	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	105	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt method blank	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.14	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	103	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt LCS	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.04	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt matrix spike	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.75	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.24	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup, rec	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	105	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt matrix spike, rec	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	108	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt method blank	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.12	µg/L	EPA 525.2	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	srgt method blank, rec	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	102	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt LCS	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.49	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.489	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS dup	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.481	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS dup, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	96	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt LCS, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	98	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt LCS, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	98	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt matrix spike	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.374	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.136	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	Lab	srgt matrix spike dup, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	27	%	EPA 525.2	-88	-88	73	136	GN
2010/11-2	Lab	srgt matrix spike, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	75	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt method blank	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.504	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt method blank	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.456	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt method blank, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	91	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt LCS	12/6/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.488	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS dup	12/6/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.496	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS dup, rec	12/6/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	99	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt LCS, rec	12/6/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	98	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	Lab	srgt method blank	12/7/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.504	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	12/7/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	ME-CC	srgt environ	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.1	µg/L	EPA 525.2	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	102	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	ME-CC	srgt environ	12/6/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.472	µg/L	EPA 525.2	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	12/6/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	94	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	ME-SCR	srgt environ	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.01	µg/L	EPA 525.2	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	100	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	ME-SCR	srgt environ	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.359	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	ME-SCR	srgt environ, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	72	%	EPA 525.2	-88	-88	73	136	GN
2010/11-2	ME-VR2	srgt environ	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.4	µg/L	EPA 525.2	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	108	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	ME-VR2	srgt environ	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.398	µg/L	EPA 525.2	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	80	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-CAM	srgt environ	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.12	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	102	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-CAM	srgt environ	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.601	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	120	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-FIL	srgt environ	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.19	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	104	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-FIL	srgt environ	12/6/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.52	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	12/6/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	104	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-HUE	srgt environ	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.27	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/24/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	105	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-HUE	srgt environ	12/6/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.487	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	12/6/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	97	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-MPK	srgt environ	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.11	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	102	%	EPA 525.2	-88	-88	73	136	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-MPK	srgt environ	12/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.832	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	12/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	166	%	EPA 525.2	-88	-88	73	136	GN
2010/11-2	MO-OXN	srgt environ	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.95	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	99	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-OXN	srgt environ	12/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.353	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	MO-OXN	srgt environ, rec	12/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	71	%	EPA 525.2	-88	-88	73	136	GN
2010/11-2	MO-SIM	srgt environ	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.55	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	105	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-SIM	srgt environ	12/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.659	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	12/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	132	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-SPA	srgt environ	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.54	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	105	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-SPA	srgt environ	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	1.22	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	MO-SPA	srgt environ, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	243	%	EPA 525.2	-88	-88	73	136	GN
2010/11-2	MO-THO	srgt environ	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.55	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	105	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-THO	srgt environ	12/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.471	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	12/2/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	94	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-VEN	srgt environ	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.54	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/29/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	103	%	EPA 525.2	-88	-88	73	136	X
2010/11-2	MO-VEN	srgt environ	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.862	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	MO-VEN	srgt environ, rec	12/1/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	172	%	EPA 525.2	-88	-88	73	136	GN
2010/11-2	Lab	LCS	11/12/2010	Organic	1,4-Dichlorobenzene	n/a	=	39	µg/L	EPA 625	0.32	1			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	1,4-Dichlorobenzene	n/a	=	78	%	EPA 625	-88	-88	20	124	X
2010/11-2	Lab	method blank	11/12/2010	Organic	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	1,4-Dichlorobenzene	n/a	=	33.4	µg/L	EPA 625	0.32	1			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	1,4-Dichlorobenzene	n/a	=	38.8	µg/L	EPA 625	0.32	1			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	1,4-Dichlorobenzene	n/a	=	78	%	EPA 625	-88	-88	20	124	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	1,4-Dichlorobenzene	n/a	=	67	%	EPA 625	-88	-88	20	124	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	1,4-Dichlorobenzene	n/a	=	15	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	method blank	11/16/2010	Organic	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1			X
2010/11-2	Lab	srgt LCS	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	80.2	µg/L	EPA 625	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	80	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	Lab	srgt method blank	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	78.6	µg/L	EPA 625	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	79	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	Lab	srgt LCS	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	10.7	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	53	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	Lab	srgt method blank	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	11.1	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	55	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	ME-CC	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	53.2	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	53	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	ME-CC	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	14.1	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	71	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	ME-SCR	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	66.5	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	66	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	ME-SCR	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	14.2	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	71	%	EPA 8270Cm	-88	-88	44	115	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	ME-VR2	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	68.6	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	69	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	ME-VR2	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	15	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	75	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	MO-CAM	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	85.1	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	85	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	MO-CAM	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	14.2	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	71	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	MO-CAM	srgt matrix spike	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	12.8	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	12	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	60	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	MO-CAM	srgt matrix spike, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	64	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	MO-FIL	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	72.6	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	73	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	MO-FIL	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	14.7	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	73	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	MO-HUE	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	69	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	69	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	MO-HUE	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	16.2	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	81	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	MO-MPK	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	72.4	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	72	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	MO-MPK	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	11.8	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	59	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	MO-OXN	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	76.5	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	76	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	MO-OXN	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	12.4	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	62	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	MO-SIM	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	77.1	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	77	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	MO-SIM	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	12.8	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	64	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	MO-SPA	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	74.6	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	75	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	MO-SPA	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	13.6	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	68	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	MO-THO	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	71.5	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	72	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	MO-THO	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	10.9	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	54	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	MO-VEN	srgt environ	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	79.3	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	79	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	MO-VEN	srgt matrix spike	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	79	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	81	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	81	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	MO-VEN	srgt matrix spike, rec	11/12/2010	Organic	2,4,6-Tribromophenol	n/a	=	79	%	EPA 625	-88	-88	0.1	157	X
2010/11-2	MO-VEN	srgt environ	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	14	µg/L	EPA 8270Cm	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-VEN	srgt environ, rec	11/17/2010	Organic	2,4,6-Tribromophenol	n/a	=	70	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-2	Lab	method blank	11/16/2010	Organic	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			X
2010/11-2	Lab	LCS	11/17/2010	Organic	2,4,6-Trichlorophenol	n/a	=	4.54	µg/L	EPA 8270Cm	0.3	1			X
2010/11-2	Lab	LCS, rec	11/17/2010	Organic	2,4,6-Trichlorophenol	n/a	=	91	%	EPA 8270Cm	-88	-88	52	150	X
2010/11-2	Lab	method blank	11/16/2010	Organic	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1			X
2010/11-2	Lab	LCS	11/17/2010	Organic	2,4-Dichlorophenol	n/a	=	4.15	µg/L	EPA 8270Cm	0.51	1			X
2010/11-2	Lab	LCS, rec	11/17/2010	Organic	2,4-Dichlorophenol	n/a	=	83	%	EPA 8270Cm	-88	-88	53	106	X
2010/11-2	Lab	srgt LCS	11/5/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.1	µg/L	EPA 515.3	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/5/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	91	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	srgt matrix spike	11/5/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.27	µg/L	EPA 515.3	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup	11/5/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.4	µg/L	EPA 515.3	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup, rec	11/5/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	94	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	srgt matrix spike, rec	11/5/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	93	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	srgt method blank	11/5/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.91	µg/L	EPA 515.3	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/5/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	srgt LCS	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.63	µg/L	EPA 515.3	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	srgt matrix spike	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.91	µg/L	EPA 515.3	-88	-88			X
2010/11-2	Lab	srgt matrix spike	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.61	µg/L	EPA 515.3	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.85	µg/L	EPA 515.3	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.2	µg/L	EPA 515.3	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup, rec	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	102	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	srgt matrix spike dup, rec	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	srgt matrix spike, rec	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	srgt matrix spike, rec	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	srgt method blank	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.94	µg/L	EPA 515.3	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	ME-CC	srgt environ	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.52	µg/L	EPA 515.3	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	95	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	ME-SCR	srgt environ	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.51	µg/L	EPA 515.3	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	95	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	ME-VR2	srgt environ	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.03	µg/L	EPA 515.3	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	90	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	MO-CAM	srgt environ	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.69	µg/L	EPA 515.3	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	87	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	MO-FIL	srgt environ	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.78	µg/L	EPA 515.3	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	88	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	MO-HUE	srgt environ	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9	µg/L	EPA 515.3	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	90	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	MO-MPK	srgt environ	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.08	µg/L	EPA 515.3	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	81	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	MO-OXN	srgt environ	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9	µg/L	EPA 515.3	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	90	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	MO-SIM	srgt environ	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.62	µg/L	EPA 515.3	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	MO-SPA	srgt environ	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.96	µg/L	EPA 515.3	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	90	%	EPA 515.3	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-THO	srgt environ	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.37	µg/L	EPA 515.3	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/16/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	94	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	MO-VEN	srgt environ	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.2	µg/L	EPA 515.3	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/6/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	102	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Organic	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			X
2010/11-2	Lab	LCS	11/17/2010	Organic	2,4-Dimethylphenol	n/a	=	4.78	µg/L	EPA 8270Cm	1	2			X
2010/11-2	Lab	LCS, rec	11/17/2010	Organic	2,4-Dimethylphenol	n/a	=	96	%	EPA 8270Cm	-88	-88	21	99	X
2010/11-2	Lab	method blank	11/16/2010	Organic	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			X
2010/11-2	Lab	LCS	11/17/2010	Organic	2,4-Dinitrophenol	n/a	=	2.19	µg/L	EPA 8270Cm	1	2			X
2010/11-2	Lab	LCS, rec	11/17/2010	Organic	2,4-Dinitrophenol	n/a	=	44	%	EPA 8270Cm	-88	-88	2	227	X
2010/11-2	Lab	LCS	11/12/2010	Organic	2,4-Dinitrotoluene	n/a	=	51.4	µg/L	EPA 625	0.4	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	2,4-Dinitrotoluene	n/a	=	103	%	EPA 625	-88	-88	39	139	X
2010/11-2	Lab	method blank	11/12/2010	Organic	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	2,4-Dinitrotoluene	n/a	=	47.7	µg/L	EPA 625	0.4	5			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	2,4-Dinitrotoluene	n/a	=	49.5	µg/L	EPA 625	0.4	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	2,4-Dinitrotoluene	n/a	=	99	%	EPA 625	-88	-88	39	139	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	2,4-Dinitrotoluene	n/a	=	95	%	EPA 625	-88	-88	39	139	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	2,4-Dinitrotoluene	n/a	=	4	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	2,6-Dinitrotoluene	n/a	=	40.8	µg/L	EPA 625	0.24	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	2,6-Dinitrotoluene	n/a	=	82	%	EPA 625	-88	-88	50	158	X
2010/11-2	Lab	method blank	11/12/2010	Organic	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	2,6-Dinitrotoluene	n/a	=	37.7	µg/L	EPA 625	0.24	5			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	2,6-Dinitrotoluene	n/a	=	39.3	µg/L	EPA 625	0.24	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	2,6-Dinitrotoluene	n/a	=	79	%	EPA 625	-88	-88	50	158	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	2,6-Dinitrotoluene	n/a	=	75	%	EPA 625	-88	-88	50	158	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	2,6-Dinitrotoluene	n/a	=	4	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/3/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	11.6	µg/L	EPA 524.2	0.35	1			X
2010/11-2	Lab	LCS dup	11/3/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	14.2	µg/L	EPA 524.2	0.35	1			X
2010/11-2	Lab	LCS dup, rec	11/3/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	237	%	EPA 524.2	-88	-88	70	130	EUM
2010/11-2	Lab	LCS, rec	11/3/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	193	%	EPA 524.2	-88	-88	70	130	EUM
2010/11-2	Lab	LCS, RPD	11/3/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	20	%	EPA 524.2	-88	-88	0	30	X
2010/11-2	Lab	method blank	11/3/2010	Organic	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1			X
2010/11-2	Lab	LCS	11/5/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	5.85	µg/L	EPA 524.2	0.35	1			X
2010/11-2	Lab	LCS dup	11/5/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	5.94	µg/L	EPA 524.2	0.35	1			X
2010/11-2	Lab	LCS dup, rec	11/5/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	99	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	LCS, rec	11/5/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	98	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	LCS, RPD	11/5/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	2	%	EPA 524.2	-88	-88	0	30	X
2010/11-2	Lab	method blank	11/5/2010	Organic	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1			X
2010/11-2	Lab	LCS	11/12/2010	Organic	2-Chloronaphthalene	n/a	=	39.2	µg/L	EPA 625	0.26	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	2-Chloronaphthalene	n/a	=	78	%	EPA 625	-88	-88	60	118	X
2010/11-2	Lab	method blank	11/12/2010	Organic	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	2-Chloronaphthalene	n/a	=	35	µg/L	EPA 625	0.26	5			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	2-Chloronaphthalene	n/a	=	38.5	µg/L	EPA 625	0.26	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	2-Chloronaphthalene	n/a	=	77	%	EPA 625	-88	-88	60	118	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	2-Chloronaphthalene	n/a	=	70	%	EPA 625	-88	-88	60	118	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	2-Chloronaphthalene	n/a	=	9	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	method blank	11/16/2010	Organic	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS	11/17/2010	Organic	2-Chlorophenol	n/a	=	3.68	µg/L	EPA 8270Cm	0.65	1			X
2010/11-2	Lab	LCS, rec	11/17/2010	Organic	2-Chlorophenol	n/a	=	74	%	EPA 8270Cm	-88	-88	46	92	X
2010/11-2	MO-CAM	matrix spike	11/17/2010	Organic	2-Chlorophenol	n/a	=	3.55	µg/L	EPA 8270Cm	0.65	1			X
2010/11-2	MO-CAM	matrix spike dup	11/17/2010	Organic	2-Chlorophenol	n/a	=	3.69	µg/L	EPA 8270Cm	0.65	1			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/17/2010	Organic	2-Chlorophenol	n/a	=	74	%	EPA 8270Cm	-88	-88	47	102	X
2010/11-2	MO-CAM	matrix spike, rec	11/17/2010	Organic	2-Chlorophenol	n/a	=	71	%	EPA 8270Cm	-88	-88	47	102	X
2010/11-2	MO-CAM	matrix spike, RPD	11/17/2010	Organic	2-Chlorophenol	n/a	=	4	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	srgt LCS	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	38.3	µg/L	EPA 625	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	77	%	EPA 625	-88	-88	22	130	X
2010/11-2	Lab	srgt method blank	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	39.2	µg/L	EPA 625	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	78	%	EPA 625	-88	-88	22	130	X
2010/11-2	Lab	srgt LCS	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	7.63	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	76	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	Lab	srgt method blank	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	6.81	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	68	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	ME-CC	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	26.7	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	53	%	EPA 625	-88	-88	22	130	X
2010/11-2	ME-CC	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	7.29	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	73	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	ME-SCR	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	33.1	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	66	%	EPA 625	-88	-88	22	130	X
2010/11-2	ME-SCR	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	8.05	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	80	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	ME-VR2	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	35.8	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	72	%	EPA 625	-88	-88	22	130	X
2010/11-2	ME-VR2	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	7.78	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	78	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	MO-CAM	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	43.6	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	87	%	EPA 625	-88	-88	22	130	X
2010/11-2	MO-CAM	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	7.04	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	70	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	MO-CAM	srgt matrix spike	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	7.26	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	7.13	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	71	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	MO-CAM	srgt matrix spike, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	73	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	MO-FIL	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	34.9	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	70	%	EPA 625	-88	-88	22	130	X
2010/11-2	MO-FIL	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	8.25	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	82	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	MO-HUE	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	33.8	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	68	%	EPA 625	-88	-88	22	130	X
2010/11-2	MO-HUE	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	8.45	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	84	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	MO-MPK	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	36.6	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	73	%	EPA 625	-88	-88	22	130	X
2010/11-2	MO-MPK	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	7.23	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	72	%	EPA 8270Cm	-88	-88	51	139	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-OXN	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	38.3	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	77	%	EPA 625	-88	-88	22	130	X
2010/11-2	MO-OXN	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	7.29	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	73	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	MO-SIM	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	40.5	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	81	%	EPA 625	-88	-88	22	130	X
2010/11-2	MO-SIM	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	6.98	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	70	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	MO-SPA	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	39.2	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	78	%	EPA 625	-88	-88	22	130	X
2010/11-2	MO-SPA	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	7.62	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	76	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	MO-THO	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	37.5	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	75	%	EPA 625	-88	-88	22	130	X
2010/11-2	MO-THO	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	6.45	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	64	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	MO-VEN	srgt environ	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	39.9	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	80	%	EPA 625	-88	-88	22	130	X
2010/11-2	MO-VEN	srgt matrix spike	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	36	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	38.2	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	76	%	EPA 625	-88	-88	22	130	X
2010/11-2	MO-VEN	srgt matrix spike, rec	11/12/2010	Organic	2-Fluorobiphenyl	n/a	=	72	%	EPA 625	-88	-88	22	130	X
2010/11-2	MO-VEN	srgt environ	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	7.47	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/16/2010	Organic	2-Fluorobiphenyl	n/a	=	75	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-2	Lab	srgt LCS	11/12/2010	Organic	2-Fluorophenol	n/a	=	49.2	µg/L	EPA 625	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	49	%	EPA 625	-88	-88	6	96	X
2010/11-2	Lab	srgt method blank	11/12/2010	Organic	2-Fluorophenol	n/a	=	49.3	µg/L	EPA 625	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	49	%	EPA 625	-88	-88	6	96	X
2010/11-2	Lab	srgt LCS	11/17/2010	Organic	2-Fluorophenol	n/a	=	8.62	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	43	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	Lab	srgt method blank	11/17/2010	Organic	2-Fluorophenol	n/a	=	7.24	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	36	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	ME-CC	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	35.8	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	36	%	EPA 625	-88	-88	6	96	X
2010/11-2	ME-CC	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	7.06	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	35	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	ME-SCR	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	40.6	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	41	%	EPA 625	-88	-88	6	96	X
2010/11-2	ME-SCR	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	8.71	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	44	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	ME-VR2	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	46.5	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	46	%	EPA 625	-88	-88	6	96	X
2010/11-2	ME-VR2	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	7.24	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	36	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	MO-CAM	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	53.5	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	53	%	EPA 625	-88	-88	6	96	X
2010/11-2	MO-CAM	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	6.84	µg/L	EPA 8270Cm	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-CAM	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	MO-CAM	srgt matrix spike	11/17/2010	Organic	2-Fluorophenol	n/a	=	7.59	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup	11/17/2010	Organic	2-Fluorophenol	n/a	=	7.44	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	37	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	MO-CAM	srgt matrix spike, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	38	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	MO-FIL	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	44.5	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	45	%	EPA 625	-88	-88	6	96	X
2010/11-2	MO-FIL	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	8.45	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	42	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	MO-HUE	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	43.9	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	44	%	EPA 625	-88	-88	6	96	X
2010/11-2	MO-HUE	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	8.59	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	43	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	MO-MPK	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	49	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	49	%	EPA 625	-88	-88	6	96	X
2010/11-2	MO-MPK	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	7.15	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	36	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	MO-OXN	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	52.8	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	53	%	EPA 625	-88	-88	6	96	X
2010/11-2	MO-OXN	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	7.48	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	37	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	MO-SIM	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	52	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	52	%	EPA 625	-88	-88	6	96	X
2010/11-2	MO-SIM	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	7.31	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	37	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	MO-SPA	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	54	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	54	%	EPA 625	-88	-88	6	96	X
2010/11-2	MO-SPA	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	8	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	40	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	MO-THO	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	52.1	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	52	%	EPA 625	-88	-88	6	96	X
2010/11-2	MO-THO	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	6.2	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	31	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	MO-VEN	srgt environ	11/12/2010	Organic	2-Fluorophenol	n/a	=	53.4	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	53	%	EPA 625	-88	-88	6	96	X
2010/11-2	MO-VEN	srgt matrix spike	11/12/2010	Organic	2-Fluorophenol	n/a	=	45.3	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup	11/12/2010	Organic	2-Fluorophenol	n/a	=	47.8	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	48	%	EPA 625	-88	-88	6	96	X
2010/11-2	MO-VEN	srgt matrix spike, rec	11/12/2010	Organic	2-Fluorophenol	n/a	=	45	%	EPA 625	-88	-88	6	96	X
2010/11-2	MO-VEN	srgt environ	11/17/2010	Organic	2-Fluorophenol	n/a	=	7.69	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/17/2010	Organic	2-Fluorophenol	n/a	=	38	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-2	Lab	method blank	11/16/2010	Organic	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1			X
2010/11-2	Lab	method blank	11/16/2010	Organic	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1			X
2010/11-2	Lab	LCS	11/17/2010	Organic	2-Nitrophenol	n/a	=	3.52	µg/L	EPA 8270Cm	0.71	1			X
2010/11-2	Lab	LCS, rec	11/17/2010	Organic	2-Nitrophenol	n/a	=	70	%	EPA 8270Cm	-88	-88	48	197	X
2010/11-2	Lab	LCS	11/12/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	11.4	µg/L	EPA 625	0.3	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	23	%	EPA 625	-88	-88	0.1	262	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	method blank	11/12/2010	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			GB
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			GB
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	0	%	EPA 625	-88	-88	0.1	262	GB
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	0	%	EPA 625	-88	-88	0.1	262	GB
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	0	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	method blank	11/16/2010	Organic	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			X
2010/11-2	Lab	method blank	11/16/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1			X
2010/11-2	Lab	LCS	11/17/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	1.84	µg/L	EPA 8270Cm	0.14	1			EUM
2010/11-2	Lab	LCS, rec	11/17/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	37	%	EPA 8270Cm	-88	-88	56	227	EUM
2010/11-2	Lab	srgt LCS	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	10.6	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt LCS dup	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	10.2	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt LCS dup, rec	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	102	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	srgt LCS, rec	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	106	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	srgt method blank	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	11.7	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt method blank, rec	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	117	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	srgt LCS	11/5/2010	Organic	4-Bromofluorobenzene	n/a	=	10.1	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt LCS dup	11/5/2010	Organic	4-Bromofluorobenzene	n/a	=	10	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt LCS dup, rec	11/5/2010	Organic	4-Bromofluorobenzene	n/a	=	100	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	srgt LCS, rec	11/5/2010	Organic	4-Bromofluorobenzene	n/a	=	101	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	srgt method blank	11/5/2010	Organic	4-Bromofluorobenzene	n/a	=	9.52	µg/L	EPA 524.2	0	0			X
2010/11-2	Lab	srgt method blank, rec	11/5/2010	Organic	4-Bromofluorobenzene	n/a	=	95	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	ME-CC	srgt environ	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	10.8	µg/L	EPA 524.2	0	0			X
2010/11-2	ME-CC	srgt environ, rec	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	108	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	ME-SCR	srgt environ	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	11.6	µg/L	EPA 524.2	0	0			X
2010/11-2	ME-SCR	srgt environ, rec	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	116	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	ME-VR2	srgt environ	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	10.9	µg/L	EPA 524.2	0	0			X
2010/11-2	ME-VR2	srgt environ, rec	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	109	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-CAM	srgt environ	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	10.7	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-CAM	srgt environ, rec	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	107	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-FIL	srgt environ	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	9.47	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-FIL	srgt environ, rec	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	95	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-HUE	srgt environ	11/6/2010	Organic	4-Bromofluorobenzene	n/a	=	10	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-HUE	srgt environ, rec	11/6/2010	Organic	4-Bromofluorobenzene	n/a	=	100	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-MPK	srgt environ	11/4/2010	Organic	4-Bromofluorobenzene	n/a	=	9.52	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-MPK	srgt environ, rec	11/4/2010	Organic	4-Bromofluorobenzene	n/a	=	95	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-OXN	srgt environ	11/4/2010	Organic	4-Bromofluorobenzene	n/a	=	8.2	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-OXN	srgt environ, rec	11/4/2010	Organic	4-Bromofluorobenzene	n/a	=	82	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-SIM	srgt environ	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	11	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-SIM	srgt environ, rec	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	110	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-SPA	srgt environ	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	11.4	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-SPA	srgt environ, rec	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	114	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-THO	srgt environ	11/4/2010	Organic	4-Bromofluorobenzene	n/a	=	9.38	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-THO	srgt environ, rec	11/4/2010	Organic	4-Bromofluorobenzene	n/a	=	94	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	MO-VEN	srgt environ	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	10.8	µg/L	EPA 524.2	0	0			X
2010/11-2	MO-VEN	srgt environ, rec	11/3/2010	Organic	4-Bromofluorobenzene	n/a	=	108	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	LCS	11/12/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	35.1	µg/L	EPA 625	0.23	5			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	70	%	EPA 625	-88	-88	56	127	X
2010/11-2	Lab	method blank	11/12/2010	Organic	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	34.1	µg/L	EPA 625	0.23	5			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	35.6	µg/L	EPA 625	0.23	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	71	%	EPA 625	-88	-88	56	127	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	68	%	EPA 625	-88	-88	56	127	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	4	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	method blank	11/16/2010	Organic	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1			X
2010/11-2	Lab	LCS	11/17/2010	Organic	4-Chloro-3-methylphenol	n/a	=	3.58	µg/L	EPA 8270Cm	0.37	1			X
2010/11-2	Lab	LCS, rec	11/17/2010	Organic	4-Chloro-3-methylphenol	n/a	=	72	%	EPA 8270Cm	-88	-88	51	112	X
2010/11-2	MO-CAM	matrix spike	11/17/2010	Organic	4-Chloro-3-methylphenol	n/a	=	4	µg/L	EPA 8270Cm	0.37	1			X
2010/11-2	MO-CAM	matrix spike dup	11/17/2010	Organic	4-Chloro-3-methylphenol	n/a	=	4.31	µg/L	EPA 8270Cm	0.37	1			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/17/2010	Organic	4-Chloro-3-methylphenol	n/a	=	86	%	EPA 8270Cm	-88	-88	39	121	X
2010/11-2	MO-CAM	matrix spike, rec	11/17/2010	Organic	4-Chloro-3-methylphenol	n/a	=	80	%	EPA 8270Cm	-88	-88	39	121	X
2010/11-2	MO-CAM	matrix spike, RPD	11/17/2010	Organic	4-Chloro-3-methylphenol	n/a	=	7	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	39.9	µg/L	EPA 625	0.24	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	80	%	EPA 625	-88	-88	25	158	X
2010/11-2	Lab	method blank	11/12/2010	Organic	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	37.7	µg/L	EPA 625	0.24	5			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	40.1	µg/L	EPA 625	0.24	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	80	%	EPA 625	-88	-88	25	158	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	75	%	EPA 625	-88	-88	25	158	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	6	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	method blank	11/16/2010	Organic	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			X
2010/11-2	Lab	LCS	11/17/2010	Organic	4-Nitrophenol	n/a	=	1.36	µg/L	EPA 8270Cm	0	1			X
2010/11-2	Lab	LCS, rec	11/17/2010	Organic	4-Nitrophenol	n/a	=	27	%	EPA 8270Cm	-88	-88	15	73	X
2010/11-2	MO-CAM	matrix spike	11/17/2010	Organic	4-Nitrophenol	n/a	=	2.48	µg/L	EPA 8270Cm	1	2			X
2010/11-2	MO-CAM	matrix spike dup	11/17/2010	Organic	4-Nitrophenol	n/a	=	2.28	µg/L	EPA 8270Cm	1	2			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/17/2010	Organic	4-Nitrophenol	n/a	=	46	%	EPA 8270Cm	-88	-88	1	65	X
2010/11-2	MO-CAM	matrix spike, rec	11/17/2010	Organic	4-Nitrophenol	n/a	=	50	%	EPA 8270Cm	-88	-88	1	65	X
2010/11-2	MO-CAM	matrix spike, RPD	11/17/2010	Organic	4-Nitrophenol	n/a	=	8	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Acenaphthene	n/a	=	4.16	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Acenaphthene	n/a	=	83	%	EPA 8270Cm	-88	-88	47	145	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Acenaphthene	n/a	=	4.22	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Acenaphthene	n/a	=	4.4	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Acenaphthene	n/a	=	88	%	EPA 8270Cm	-88	-88	47	145	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Acenaphthene	n/a	=	84	%	EPA 8270Cm	-88	-88	47	145	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Acenaphthene	n/a	=	4	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Acenaphthylene	n/a	=	4.47	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Acenaphthylene	n/a	=	89	%	EPA 8270Cm	-88	-88	33	145	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Acenaphthylene	n/a	=	4.29	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Acenaphthylene	n/a	=	4.51	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Acenaphthylene	n/a	=	90	%	EPA 8270Cm	-88	-88	33	145	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Acenaphthylene	n/a	=	86	%	EPA 8270Cm	-88	-88	33	145	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Acenaphthylene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS	11/16/2010	Organic	Anthracene	n/a	=	4.73	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Anthracene	n/a	=	95	%	EPA 8270Cm	-88	-88	27	133	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Anthracene	n/a	=	4.57	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Anthracene	n/a	=	4.65	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Anthracene	n/a	=	93	%	EPA 8270Cm	-88	-88	27	133	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Anthracene	n/a	=	91	%	EPA 8270Cm	-88	-88	27	133	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Anthracene	n/a	=	2	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Benz(a)anthracene	n/a	=	4.9	µg/L	EPA 8270Cm	0.28	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Benz(a)anthracene	n/a	=	98	%	EPA 8270Cm	-88	-88	33	143	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Benz(a)anthracene	n/a	=	4.67	µg/L	EPA 8270Cm	0.28	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Benz(a)anthracene	n/a	=	5.48	µg/L	EPA 8270Cm	0.28	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Benz(a)anthracene	n/a	=	110	%	EPA 8270Cm	-88	-88	33	143	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Benz(a)anthracene	n/a	=	93	%	EPA 8270Cm	-88	-88	33	143	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Benz(a)anthracene	n/a	=	16	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Organic	Benzo(a)pyrene	n/a	=	4.26	µg/L	EPA 525.2	0.073	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Organic	Benzo(a)pyrene	n/a	=	2.65	µg/L	EPA 525.2	0.073	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Organic	Benzo(a)pyrene	n/a	=	53	%	EPA 525.2	-88	-88	29	153	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Organic	Benzo(a)pyrene	n/a	=	80	%	EPA 525.2	-88	-88	29	153	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Organic	Benzo(a)pyrene	n/a	=	47	%	EPA 525.2	-88	-88	0	30	IL
2010/11-2	000NONPJ	matrix spike	11/29/2010	Organic	Benzo(a)pyrene	n/a	=	3.37	µg/L	EPA 525.2	0.073	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Organic	Benzo(a)pyrene	n/a	=	1.93	µg/L	EPA 525.2	0.073	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Organic	Benzo(a)pyrene	n/a	=	39	%	EPA 525.2	-88	-88	29	153	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Organic	Benzo(a)pyrene	n/a	=	63	%	EPA 525.2	-88	-88	29	153	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Organic	Benzo(a)pyrene	n/a	=	54	%	EPA 525.2	-88	-88	0	30	IL
2010/11-2	Lab	LCS	11/24/2010	Organic	Benzo(a)pyrene	n/a	=	3.72	µg/L	EPA 525.2	0.073	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Organic	Benzo(a)pyrene	n/a	=	74	%	EPA 525.2	-88	-88	54	136	X
2010/11-2	Lab	method blank	11/24/2010	Organic	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Organic	Benzo(a)pyrene	n/a	=	2.91	µg/L	EPA 525.2	0.073	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Organic	Benzo(a)pyrene	n/a	=	58	%	EPA 525.2	-88	-88	54	136	X
2010/11-2	Lab	method blank	11/29/2010	Organic	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1			X
2010/11-2	Lab	LCS	11/16/2010	Organic	Benzo(b)fluoranthene	n/a	=	3.33	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Benzo(b)fluoranthene	n/a	=	67	%	EPA 8270Cm	-88	-88	24	159	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Benzo(b)fluoranthene	n/a	=	3.43	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Benzo(b)fluoranthene	n/a	=	3.53	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Benzo(b)fluoranthene	n/a	=	71	%	EPA 8270Cm	-88	-88	24	159	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Benzo(b)fluoranthene	n/a	=	69	%	EPA 8270Cm	-88	-88	24	159	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Benzo(b)fluoranthene	n/a	=	3	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Benzo(g,h,i)perylene	n/a	=	2.82	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Benzo(g,h,i)perylene	n/a	=	56	%	EPA 8270Cm	-88	-88	0.1	219	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Benzo(g,h,i)perylene	n/a	=	3.19	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Benzo(g,h,i)perylene	n/a	=	3.29	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Benzo(g,h,i)perylene	n/a	=	66	%	EPA 8270Cm	-88	-88	0.1	219	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Benzo(g,h,i)perylene	n/a	=	64	%	EPA 8270Cm	-88	-88	0.1	219	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Benzo(g,h,i)perylene	n/a	=	3	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Benzo(k)fluoranthene	n/a	=	3.45	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Benzo(k)fluoranthene	n/a	=	69	%	EPA 8270Cm	-88	-88	11	162	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Benzo(k)fluoranthene	n/a	=	3.47	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Benzo(k)fluoranthene	n/a	=	3.64	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Benzo(k)fluoranthene	n/a	=	73	%	EPA 8270Cm	-88	-88	11	162	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Benzo(k)fluoranthene	n/a	=	69	%	EPA 8270Cm	-88	-88	11	162	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Benzo(k)fluoranthene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	48	µg/L	EPA 625	0.4	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	96	%	EPA 625	-88	-88	33	184	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	44.3	µg/L	EPA 625	0.4	5			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	47.4	µg/L	EPA 625	0.4	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	95	%	EPA 625	-88	-88	33	184	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	89	%	EPA 625	-88	-88	33	184	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	7	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	40.6	µg/L	EPA 625	0.46	1			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	81	%	EPA 625	-88	-88	12	158	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	37.9	µg/L	EPA 625	0.46	1			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	40.5	µg/L	EPA 625	0.46	1			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	81	%	EPA 625	-88	-88	12	158	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	76	%	EPA 625	-88	-88	12	158	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	7	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	39.3	µg/L	EPA 625	0.48	2			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	79	%	EPA 625	-88	-88	36	166	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	36.7	µg/L	EPA 625	0.48	2			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	39	µg/L	EPA 625	0.48	2			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	78	%	EPA 625	-88	-88	36	166	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	73	%	EPA 625	-88	-88	36	166	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	6	%	EPA 625	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	4.46	µg/L	EPA 525.2	0.23	3			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	2.77	µg/L	EPA 525.2	0.23	2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	55	%	EPA 525.2	-88	-88	28	147	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	83	%	EPA 525.2	-88	-88	28	147	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	47	%	EPA 525.2	-88	-88	0	30	IL
2010/11-2	000NONPJ	matrix spike	11/29/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	4.97	µg/L	EPA 525.2	0.23	3			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	2.82	µg/L	EPA 525.2	0.23	2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	56	%	EPA 525.2	-88	-88	28	147	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	93	%	EPA 525.2	-88	-88	28	147	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	55	%	EPA 525.2	-88	-88	0	30	IL
2010/11-2	Lab	LCS	11/24/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	3.69	µg/L	EPA 525.2	0.23	3			X
2010/11-2	Lab	LCS, rec	11/24/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	74	%	EPA 525.2	-88	-88	50	145	X
2010/11-2	Lab	method blank	11/24/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS	11/29/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	4.35	µg/L	EPA 525.2	0.23	3			X
2010/11-2	Lab	LCS, rec	11/29/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	87	%	EPA 525.2	-88	-88	50	145	X
2010/11-2	Lab	method blank	11/29/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	6.06	µg/L	EPA 525.2	1.1	3			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	3.43	µg/L	EPA 525.2	1.1	3			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	69	%	EPA 525.2	-88	-88	23	154	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	113	%	EPA 525.2	-88	-88	23	154	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	55	%	EPA 525.2	-88	-88	0	30	IL
2010/11-2	000NONPJ	matrix spike	11/29/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	6.76	µg/L	EPA 525.2	1.1	3			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	3.68	µg/L	EPA 525.2	1.1	3			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	74	%	EPA 525.2	-88	-88	23	154	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	126	%	EPA 525.2	-88	-88	23	154	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	59	%	EPA 525.2	-88	-88	0	30	IL
2010/11-2	Lab	LCS	11/24/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	4.07	µg/L	EPA 525.2	1.1	3			X
2010/11-2	Lab	LCS, rec	11/24/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	81	%	EPA 525.2	-88	-88	54	142	X
2010/11-2	Lab	method blank	11/24/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.42	µg/L	EPA 525.2	1.1	3			IP
2010/11-2	Lab	LCS	11/29/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	5.08	µg/L	EPA 525.2	1.1	3			X
2010/11-2	Lab	LCS, rec	11/29/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	102	%	EPA 525.2	-88	-88	54	142	X
2010/11-2	Lab	method blank	11/29/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.76	µg/L	EPA 525.2	1.1	3			IP
2010/11-2	Lab	LCS	11/12/2010	Organic	Butyl benzyl phthalate	n/a	=	42.3	µg/L	EPA 625	1	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Butyl benzyl phthalate	n/a	=	85	%	EPA 625	-88	-88	0.1	152	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Butyl benzyl phthalate	n/a	=	39.1	µg/L	EPA 625	1	5			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Butyl benzyl phthalate	n/a	=	43.1	µg/L	EPA 625	1	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Butyl benzyl phthalate	n/a	=	84	%	EPA 625	-88	-88	0.1	152	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Butyl benzyl phthalate	n/a	=	76	%	EPA 625	-88	-88	0.1	152	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Butyl benzyl phthalate	n/a	=	10	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Chrysene	n/a	=	3.27	µg/L	EPA 8270Cm	0.09	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Chrysene	n/a	=	65	%	EPA 8270Cm	-88	-88	17	168	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Chrysene	n/a	=	3.4	µg/L	EPA 8270Cm	0.09	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Chrysene	n/a	=	3.38	µg/L	EPA 8270Cm	0.09	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Chrysene	n/a	=	68	%	EPA 8270Cm	-88	-88	17	168	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Chrysene	n/a	=	68	%	EPA 8270Cm	-88	-88	17	168	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Chrysene	n/a	=	0.6	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Dibenz(a,h)anthracene	n/a	=	2.95	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Dibenz(a,h)anthracene	n/a	=	59	%	EPA 8270Cm	-88	-88	0.1	227	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Dibenz(a,h)anthracene	n/a	=	3.37	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Dibenz(a,h)anthracene	n/a	=	3.54	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Dibenz(a,h)anthracene	n/a	=	71	%	EPA 8270Cm	-88	-88	0.1	227	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Dibenz(a,h)anthracene	n/a	=	67	%	EPA 8270Cm	-88	-88	0.1	227	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Dibenz(a,h)anthracene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Diethyl phthalate	n/a	=	45.8	µg/L	EPA 625	0.23	2			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Diethyl phthalate	n/a	=	92	%	EPA 625	-88	-88	0.1	112	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Diethyl phthalate	n/a	=	43.2	µg/L	EPA 625	0.23	2			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Diethyl phthalate	n/a	=	45.2	µg/L	EPA 625	0.23	2			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Diethyl phthalate	n/a	=	90	%	EPA 625	-88	-88	0.1	112	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Diethyl phthalate	n/a	=	86	%	EPA 625	-88	-88	0.1	112	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Diethyl phthalate	n/a	=	5	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Dimethyl phthalate	n/a	=	40.3	µg/L	EPA 625	0.26	2			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Dimethyl phthalate	n/a	=	81	%	EPA 625	-88	-88	0.1	112	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Dimethyl phthalate	n/a	=	37	µg/L	EPA 625	0.26	2			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Dimethyl phthalate	n/a	=	39	µg/L	EPA 625	0.26	2			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Dimethyl phthalate	n/a	=	78	%	EPA 625	-88	-88	0.1	112	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Dimethyl phthalate	n/a	=	74	%	EPA 625	-88	-88	0.1	112	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Dimethyl phthalate	n/a	=	5	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Di-n-butylphthalate	n/a	=	43.6	µg/L	EPA 625	0.53	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Di-n-butylphthalate	n/a	=	87	%	EPA 625	-88	-88	1	118	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Di-n-butylphthalate	n/a	=	43.1	µg/L	EPA 625	0.53	5			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Di-n-butylphthalate	n/a	=	45.1	µg/L	EPA 625	0.53	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Di-n-butylphthalate	n/a	=	89	%	EPA 625	-88	-88	1	118	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Di-n-butylphthalate	n/a	=	85	%	EPA 625	-88	-88	1	118	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Di-n-butylphthalate	n/a	=	4	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Di-n-octylphthalate	n/a	=	42.1	µg/L	EPA 625	0.28	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Di-n-octylphthalate	n/a	=	84	%	EPA 625	-88	-88	6	146	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Di-n-octylphthalate	n/a	=	40.3	µg/L	EPA 625	0.28	5			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Di-n-octylphthalate	n/a	=	42.6	µg/L	EPA 625	0.28	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Di-n-octylphthalate	n/a	=	85	%	EPA 625	-88	-88	6	146	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Di-n-octylphthalate	n/a	=	81	%	EPA 625	-88	-88	6	146	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Di-n-octylphthalate	n/a	=	6	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Fluoranthene	n/a	=	4.95	µg/L	EPA 8270Cm	0.2	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Fluoranthene	n/a	=	99	%	EPA 8270Cm	-88	-88	26	137	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Fluoranthene	n/a	=	5.1	µg/L	EPA 8270Cm	0.2	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Fluoranthene	n/a	=	5.27	µg/L	EPA 8270Cm	0.2	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Fluoranthene	n/a	=	100	%	EPA 8270Cm	-88	-88	26	137	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Fluoranthene	n/a	=	97	%	EPA 8270Cm	-88	-88	26	137	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Fluoranthene	n/a	=	3	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Fluorene	n/a	=	4.41	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Fluorene	n/a	=	88	%	EPA 8270Cm	-88	-88	59	121	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Fluorene	n/a	=	4.37	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Fluorene	n/a	=	4.65	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Fluorene	n/a	=	93	%	EPA 8270Cm	-88	-88	59	121	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Fluorene	n/a	=	87	%	EPA 8270Cm	-88	-88	59	121	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Fluorene	n/a	=	6	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Hexachlorobenzene	n/a	=	40.6	µg/L	EPA 625	0.15	1			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Hexachlorobenzene	n/a	=	81	%	EPA 625	-88	-88	0.1	152	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Hexachlorobenzene	n/a	=	39.1	µg/L	EPA 625	0.15	1			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Hexachlorobenzene	n/a	=	40.3	µg/L	EPA 625	0.15	1			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Hexachlorobenzene	n/a	=	81	%	EPA 625	-88	-88	0.1	152	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Hexachlorobenzene	n/a	=	78	%	EPA 625	-88	-88	0.1	152	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Hexachlorobenzene	n/a	=	3	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Hexachlorobutadiene	n/a	=	34.8	µg/L	EPA 625	0.41	1			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Hexachlorobutadiene	n/a	=	70	%	EPA 625	-88	-88	24	116	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Hexachlorobutadiene	n/a	=	29.3	µg/L	EPA 625	0.41	1			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Hexachlorobutadiene	n/a	=	35.4	µg/L	EPA 625	0.41	1			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Hexachlorobutadiene	n/a	=	71	%	EPA 625	-88	-88	24	116	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Hexachlorobutadiene	n/a	=	59	%	EPA 625	-88	-88	24	116	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Hexachlorobutadiene	n/a	=	19	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Hexachlorocyclopentadiene	n/a	=	25.9	µg/L	EPA 625	5	10			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Hexachlorocyclopentadiene	n/a	=	52	%	EPA 625	-88	-88	0.1	136	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Hexachlorocyclopentadiene	n/a	=	26.6	µg/L	EPA 625	5	10			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Hexachlorocyclopentadiene	n/a	=	29.9	µg/L	EPA 625	5	10			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Hexachlorocyclopentadiene	n/a	=	60	%	EPA 625	-88	-88	0.1	146	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Hexachlorocyclopentadiene	n/a	=	53	%	EPA 625	-88	-88	0.1	146	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Hexachlorocyclopentadiene	n/a	=	12	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Hexachloroethane	n/a	=	38.7	µg/L	EPA 625	0.36	1			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Hexachloroethane	n/a	=	77	%	EPA 625	-88	-88	40	113	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Hexachloroethane	n/a	=	32.6	µg/L	EPA 625	0.36	1			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Hexachloroethane	n/a	=	38.9	µg/L	EPA 625	0.36	1			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Hexachloroethane	n/a	=	78	%	EPA 625	-88	-88	40	113	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Hexachloroethane	n/a	=	65	%	EPA 625	-88	-88	40	113	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Hexachloroethane	n/a	=	18	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	2.96	µg/L	EPA 8270Cm	0.1	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	59	%	EPA 8270Cm	-88	-88	0.1	171	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	3.56	µg/L	EPA 8270Cm	0.1	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	3.65	µg/L	EPA 8270Cm	0.1	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	73	%	EPA 8270Cm	-88	-88	0.1	171	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	71	%	EPA 8270Cm	-88	-88	0.1	171	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	2	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Isophorone	n/a	=	44.2	µg/L	EPA 625	0.33	1			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Isophorone	n/a	=	88	%	EPA 625	-88	-88	21	196	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Isophorone	n/a	=	41.1	µg/L	EPA 625	0.33	1			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Isophorone	n/a	=	44	µg/L	EPA 625	0.33	1			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Isophorone	n/a	=	88	%	EPA 625	-88	-88	21	196	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Isophorone	n/a	=	82	%	EPA 625	-88	-88	21	196	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Isophorone	n/a	=	7	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/3/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	7.19	µg/L	EPA 524.2	1.1	3			X
2010/11-2	Lab	LCS dup	11/3/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	6.39	µg/L	EPA 524.2	1.1	3			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS dup, rec	11/3/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	106	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	LCS, rec	11/3/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	120	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	LCS, RPD	11/3/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	12	%	EPA 524.2	-88	-88	0	30	X
2010/11-2	Lab	method blank	11/3/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3			X
2010/11-2	Lab	LCS	11/5/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	6.42	µg/L	EPA 524.2	1.1	3			X
2010/11-2	Lab	LCS dup	11/5/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	6.28	µg/L	EPA 524.2	1.1	3			X
2010/11-2	Lab	LCS dup, rec	11/5/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	105	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	LCS, rec	11/5/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	107	%	EPA 524.2	-88	-88	70	130	X
2010/11-2	Lab	LCS, RPD	11/5/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	2	%	EPA 524.2	-88	-88	0	30	X
2010/11-2	Lab	method blank	11/5/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3			X
2010/11-2	Lab	LCS	11/16/2010	Organic	Naphthalene	n/a	=	3.91	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Naphthalene	n/a	=	78	%	EPA 8270Cm	-88	-88	21	133	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Naphthalene	n/a	=	3.89	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Naphthalene	n/a	=	4.1	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Naphthalene	n/a	=	82	%	EPA 8270Cm	-88	-88	21	133	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Naphthalene	n/a	=	78	%	EPA 8270Cm	-88	-88	21	133	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Naphthalene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	Nitrobenzene	n/a	=	45.7	µg/L	EPA 625	0.37	1			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	Nitrobenzene	n/a	=	91	%	EPA 625	-88	-88	35	180	X
2010/11-2	Lab	method blank	11/12/2010	Organic	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	Nitrobenzene	n/a	=	42.6	µg/L	EPA 625	0.37	1			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	Nitrobenzene	n/a	=	45	µg/L	EPA 625	0.37	1			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	Nitrobenzene	n/a	=	90	%	EPA 625	-88	-88	35	180	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	Nitrobenzene	n/a	=	85	%	EPA 625	-88	-88	35	180	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	Nitrobenzene	n/a	=	5	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	srgt LCS	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	49.5	µg/L	EPA 625	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	99	%	EPA 625	-88	-88	34	139	X
2010/11-2	Lab	srgt method blank	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	49.2	µg/L	EPA 625	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	98	%	EPA 625	-88	-88	34	139	X
2010/11-2	Lab	srgt LCS	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	7.7	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	77	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	Lab	srgt method blank	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	6.8	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	68	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	ME-CC	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	30.5	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	61	%	EPA 625	-88	-88	34	139	X
2010/11-2	ME-CC	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	7.31	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	73	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	ME-SCR	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	38.6	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	77	%	EPA 625	-88	-88	34	139	X
2010/11-2	ME-SCR	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	8.19	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	82	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	ME-VR2	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	41.7	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	83	%	EPA 625	-88	-88	34	139	X
2010/11-2	ME-VR2	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	7.85	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	78	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	MO-CAM	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	56	µg/L	EPA 625	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-CAM	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	112	%	EPA 625	-88	-88	34	139	X
2010/11-2	MO-CAM	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	7.46	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	75	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	MO-CAM	srgt matrix spike	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	7.2	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	7.4	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	74	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	MO-CAM	srgt matrix spike, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	72	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	MO-FIL	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	40.7	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	81	%	EPA 625	-88	-88	34	139	X
2010/11-2	MO-FIL	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	8.24	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	82	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	MO-HUE	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	38.9	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	78	%	EPA 625	-88	-88	34	139	X
2010/11-2	MO-HUE	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	8.56	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	86	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	MO-MPK	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	47.5	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	95	%	EPA 625	-88	-88	34	139	X
2010/11-2	MO-MPK	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	7.4	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	74	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	MO-OXN	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	48.4	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	97	%	EPA 625	-88	-88	34	139	X
2010/11-2	MO-OXN	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	7.21	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	72	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	MO-SIM	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	52.1	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	104	%	EPA 625	-88	-88	34	139	X
2010/11-2	MO-SIM	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	7.02	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	70	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	MO-SPA	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	52.2	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	104	%	EPA 625	-88	-88	34	139	X
2010/11-2	MO-SPA	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	7.71	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	77	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	MO-THO	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	47.7	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	95	%	EPA 625	-88	-88	34	139	X
2010/11-2	MO-THO	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	6.44	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	64	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	MO-VEN	srgt environ	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	50.5	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	101	%	EPA 625	-88	-88	34	139	X
2010/11-2	MO-VEN	srgt matrix spike	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	46	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	48.6	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	97	%	EPA 625	-88	-88	34	139	X
2010/11-2	MO-VEN	srgt matrix spike, rec	11/12/2010	Organic	Nitrobenzene-d5	n/a	=	92	%	EPA 625	-88	-88	34	139	X
2010/11-2	MO-VEN	srgt environ	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	7.54	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/16/2010	Organic	Nitrobenzene-d5	n/a	=	75	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-2	Lab	LCS	11/12/2010	Organic	N-Nitrosodimethylamine	n/a	=	21.4	µg/L	EPA 625	0.36	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	N-Nitrosodimethylamine	n/a	=	43	%	EPA 625	-88	-88	27	78	X
2010/11-2	Lab	method blank	11/12/2010	Organic	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	N-Nitrosodimethylamine	n/a	=	20.3	µg/L	EPA 625	0.36	5			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	N-Nitrosodimethylamine	n/a	=	21	µg/L	EPA 625	0.36	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	N-Nitrosodimethylamine	n/a	=	42	%	EPA 625	-88	-88	22	70	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	N-Nitrosodimethylamine	n/a	=	41	%	EPA 625	-88	-88	22	70	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	N-Nitrosodimethylamine	n/a	=	3	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	45.4	µg/L	EPA 625	0.41	5			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	91	%	EPA 625	-88	-88	0.1	230	X
2010/11-2	Lab	method blank	11/12/2010	Organic	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	42.2	µg/L	EPA 625	0.41	5			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	45	µg/L	EPA 625	0.41	5			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	90	%	EPA 625	-88	-88	0.1	230	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	84	%	EPA 625	-88	-88	0.1	230	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	7	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/12/2010	Organic	N-Nitrosodiphenylamine	n/a	=	36.2	µg/L	EPA 625	0.23	1			X
2010/11-2	Lab	LCS, rec	11/12/2010	Organic	N-Nitrosodiphenylamine	n/a	=	72	%	EPA 625	-88	-88	48	129	X
2010/11-2	Lab	method blank	11/12/2010	Organic	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1			X
2010/11-2	MO-VEN	matrix spike	11/12/2010	Organic	N-Nitrosodiphenylamine	n/a	=	32.8	µg/L	EPA 625	0.23	1			X
2010/11-2	MO-VEN	matrix spike dup	11/12/2010	Organic	N-Nitrosodiphenylamine	n/a	=	33.2	µg/L	EPA 625	0.23	1			X
2010/11-2	MO-VEN	matrix spike dup, rec	11/12/2010	Organic	N-Nitrosodiphenylamine	n/a	=	66	%	EPA 625	-88	-88	17	138	X
2010/11-2	MO-VEN	matrix spike, rec	11/12/2010	Organic	N-Nitrosodiphenylamine	n/a	=	66	%	EPA 625	-88	-88	17	138	X
2010/11-2	MO-VEN	matrix spike, RPD	11/12/2010	Organic	N-Nitrosodiphenylamine	n/a	=	1	%	EPA 625	-88	-88	0	30	X
2010/11-2	Lab	srgt LCS	11/24/2010	Organic	Perylene-d12	n/a	=	5.17	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/24/2010	Organic	Perylene-d12	n/a	=	103	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	Lab	srgt matrix spike	11/24/2010	Organic	Perylene-d12	n/a	=	5.45	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup	11/24/2010	Organic	Perylene-d12	n/a	=	5.15	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup, rec	11/24/2010	Organic	Perylene-d12	n/a	=	103	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	Lab	srgt matrix spike, rec	11/24/2010	Organic	Perylene-d12	n/a	=	102	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	Lab	srgt method blank	11/24/2010	Organic	Perylene-d12	n/a	=	4.84	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/24/2010	Organic	Perylene-d12	n/a	=	97	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	Lab	srgt LCS	11/29/2010	Organic	Perylene-d12	n/a	=	4.37	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/29/2010	Organic	Perylene-d12	n/a	=	87	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	Lab	srgt matrix spike	11/29/2010	Organic	Perylene-d12	n/a	=	4.41	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup	11/29/2010	Organic	Perylene-d12	n/a	=	3.9	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup, rec	11/29/2010	Organic	Perylene-d12	n/a	=	78	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	Lab	srgt matrix spike, rec	11/29/2010	Organic	Perylene-d12	n/a	=	82	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	Lab	srgt method blank	11/29/2010	Organic	Perylene-d12	n/a	=	4.11	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/29/2010	Organic	Perylene-d12	n/a	=	82	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	ME-CC	srgt environ	11/24/2010	Organic	Perylene-d12	n/a	=	4.15	µg/L	EPA 525.2	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/24/2010	Organic	Perylene-d12	n/a	=	83	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	ME-SCR	srgt environ	11/24/2010	Organic	Perylene-d12	n/a	=	4.93	µg/L	EPA 525.2	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/24/2010	Organic	Perylene-d12	n/a	=	99	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	ME-VR2	srgt environ	11/24/2010	Organic	Perylene-d12	n/a	=	4.88	µg/L	EPA 525.2	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/24/2010	Organic	Perylene-d12	n/a	=	98	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	MO-CAM	srgt environ	11/24/2010	Organic	Perylene-d12	n/a	=	3.09	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/24/2010	Organic	Perylene-d12	n/a	=	62	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	MO-FIL	srgt environ	11/24/2010	Organic	Perylene-d12	n/a	=	3.95	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/24/2010	Organic	Perylene-d12	n/a	=	79	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	MO-HUE	srgt environ	11/24/2010	Organic	Perylene-d12	n/a	=	4.29	µg/L	EPA 525.2	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-HUE	srgt environ, rec	11/24/2010	Organic	Perylene-d12	n/a	=	86	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	MO-MPK	srgt environ	11/29/2010	Organic	Perylene-d12	n/a	=	3.55	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/29/2010	Organic	Perylene-d12	n/a	=	71	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	MO-OXN	srgt environ	11/29/2010	Organic	Perylene-d12	n/a	=	3.6	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/29/2010	Organic	Perylene-d12	n/a	=	72	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	MO-SIM	srgt environ	11/29/2010	Organic	Perylene-d12	n/a	=	4.1	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/29/2010	Organic	Perylene-d12	n/a	=	78	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	MO-SPA	srgt environ	11/29/2010	Organic	Perylene-d12	n/a	=	3.86	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/29/2010	Organic	Perylene-d12	n/a	=	73	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	MO-THO	srgt environ	11/29/2010	Organic	Perylene-d12	n/a	=	4.49	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/29/2010	Organic	Perylene-d12	n/a	=	85	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	MO-VEN	srgt environ	11/29/2010	Organic	Perylene-d12	n/a	=	3.9	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/29/2010	Organic	Perylene-d12	n/a	=	73	%	EPA 525.2	-88	-88	48	141	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Phenanthrene	n/a	=	4.52	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Phenanthrene	n/a	=	90	%	EPA 8270Cm	-88	-88	54	120	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Phenanthrene	n/a	=	4.68	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Phenanthrene	n/a	=	4.66	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Phenanthrene	n/a	=	91	%	EPA 8270Cm	-88	-88	54	120	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Phenanthrene	n/a	=	91	%	EPA 8270Cm	-88	-88	54	120	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Phenanthrene	n/a	=	0.4	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1			X
2010/11-2	Lab	LCS	11/17/2010	Organic	Phenol	n/a	=	1.65	µg/L	EPA 8270Cm	0.35	1			X
2010/11-2	Lab	LCS, rec	11/17/2010	Organic	Phenol	n/a	=	33	%	EPA 8270Cm	-88	-88	14	40	X
2010/11-2	MO-CAM	matrix spike	11/17/2010	Organic	Phenol	n/a	=	1.56	µg/L	EPA 8270Cm	0.35	1			X
2010/11-2	MO-CAM	matrix spike dup	11/17/2010	Organic	Phenol	n/a	=	1.63	µg/L	EPA 8270Cm	0.35	1			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/17/2010	Organic	Phenol	n/a	=	33	%	EPA 8270Cm	-88	-88	14	50	X
2010/11-2	MO-CAM	matrix spike, rec	11/17/2010	Organic	Phenol	n/a	=	31	%	EPA 8270Cm	-88	-88	14	50	X
2010/11-2	MO-CAM	matrix spike, RPD	11/17/2010	Organic	Phenol	n/a	=	4	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	srgt LCS	11/12/2010	Organic	Phenol-d5	n/a	=	34.8	µg/L	EPA 625	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/12/2010	Organic	Phenol-d5	n/a	=	35	%	EPA 625	-88	-88	2	70	X
2010/11-2	Lab	srgt method blank	11/12/2010	Organic	Phenol-d5	n/a	=	34.5	µg/L	EPA 625	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/12/2010	Organic	Phenol-d5	n/a	=	35	%	EPA 625	-88	-88	2	70	X
2010/11-2	Lab	srgt LCS	11/17/2010	Organic	Phenol-d5	n/a	=	6.5	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/17/2010	Organic	Phenol-d5	n/a	=	32	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	Lab	srgt method blank	11/17/2010	Organic	Phenol-d5	n/a	=	5.49	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/17/2010	Organic	Phenol-d5	n/a	=	27	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	ME-CC	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	23.7	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	24	%	EPA 625	-88	-88	2	70	X
2010/11-2	ME-CC	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	5.13	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	26	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	ME-SCR	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	27.1	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	27	%	EPA 625	-88	-88	2	70	X
2010/11-2	ME-SCR	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	6.34	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	32	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	ME-VR2	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	29.4	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	29	%	EPA 625	-88	-88	2	70	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	ME-VR2	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	4.74	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	24	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	MO-CAM	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	39.4	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	39	%	EPA 625	-88	-88	2	70	X
2010/11-2	MO-CAM	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	4.13	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	21	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	MO-CAM	srgt matrix spike	11/17/2010	Organic	Phenol-d5	n/a	=	5.29	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup	11/17/2010	Organic	Phenol-d5	n/a	=	5.32	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup, rec	11/17/2010	Organic	Phenol-d5	n/a	=	27	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	MO-CAM	srgt matrix spike, rec	11/17/2010	Organic	Phenol-d5	n/a	=	26	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	MO-FIL	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	28.8	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	29	%	EPA 625	-88	-88	2	70	X
2010/11-2	MO-FIL	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	6.38	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	32	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	MO-HUE	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	28.7	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	29	%	EPA 625	-88	-88	2	70	X
2010/11-2	MO-HUE	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	6.21	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	31	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	MO-MPK	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	35.6	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	36	%	EPA 625	-88	-88	2	70	X
2010/11-2	MO-MPK	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	4.42	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	22	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	MO-OXN	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	38.3	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	38	%	EPA 625	-88	-88	2	70	X
2010/11-2	MO-OXN	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	4.98	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	25	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	MO-SIM	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	37.8	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	38	%	EPA 625	-88	-88	2	70	X
2010/11-2	MO-SIM	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	4.82	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	24	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	MO-SPA	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	39.2	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	39	%	EPA 625	-88	-88	2	70	X
2010/11-2	MO-SPA	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	5.77	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	29	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	MO-THO	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	37.6	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	38	%	EPA 625	-88	-88	2	70	X
2010/11-2	MO-THO	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	5.19	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	26	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	MO-VEN	srgt environ	11/12/2010	Organic	Phenol-d5	n/a	=	38.7	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/12/2010	Organic	Phenol-d5	n/a	=	39	%	EPA 625	-88	-88	2	70	X
2010/11-2	MO-VEN	srgt matrix spike	11/12/2010	Organic	Phenol-d5	n/a	=	33	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup	11/12/2010	Organic	Phenol-d5	n/a	=	34.4	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup, rec	11/12/2010	Organic	Phenol-d5	n/a	=	34	%	EPA 625	-88	-88	2	70	X
2010/11-2	MO-VEN	srgt matrix spike, rec	11/12/2010	Organic	Phenol-d5	n/a	=	33	%	EPA 625	-88	-88	2	70	X
2010/11-2	MO-VEN	srgt environ	11/17/2010	Organic	Phenol-d5	n/a	=	5.17	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/17/2010	Organic	Phenol-d5	n/a	=	26	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-2	Lab	srgt LCS	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	50.8	µg/L	EPA 625	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	srgt LCS, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	102	%	EPA 625	-88	-88	6	145	X
2010/11-2	Lab	srgt method blank	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	47.9	µg/L	EPA 625	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	96	%	EPA 625	-88	-88	6	145	X
2010/11-2	Lab	srgt LCS	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	6.32	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	63	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	Lab	srgt method blank	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	6.43	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	64	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	ME-CC	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	34.5	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	69	%	EPA 625	-88	-88	6	145	X
2010/11-2	ME-CC	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	6.03	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	60	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	ME-SCR	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	46.6	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	93	%	EPA 625	-88	-88	6	145	X
2010/11-2	ME-SCR	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	6.66	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	67	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	ME-VR2	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	50	µg/L	EPA 625	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	100	%	EPA 625	-88	-88	6	145	X
2010/11-2	ME-VR2	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	6.68	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	67	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	MO-CAM	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	47.8	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	96	%	EPA 625	-88	-88	6	145	X
2010/11-2	MO-CAM	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	6.25	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	62	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	MO-CAM	srgt matrix spike	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	5.76	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	5.88	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-CAM	srgt matrix spike dup, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	59	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	MO-CAM	srgt matrix spike, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	58	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	MO-FIL	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	44.4	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	89	%	EPA 625	-88	-88	6	145	X
2010/11-2	MO-FIL	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	6.42	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	64	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	MO-HUE	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	46.3	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	93	%	EPA 625	-88	-88	6	145	X
2010/11-2	MO-HUE	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	6.4	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	64	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	MO-MPK	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	41.8	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	84	%	EPA 625	-88	-88	6	145	X
2010/11-2	MO-MPK	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	8.21	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	82	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	MO-OXN	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	46.5	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	93	%	EPA 625	-88	-88	6	145	X
2010/11-2	MO-OXN	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	7.61	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	76	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	MO-SIM	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	45.4	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	91	%	EPA 625	-88	-88	6	145	X
2010/11-2	MO-SIM	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	7.98	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	80	%	EPA 8270Cm	-88	-88	19	134	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-SPA	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	47.2	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	94	%	EPA 625	-88	-88	6	145	X
2010/11-2	MO-SPA	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	4.54	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	45	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	MO-THO	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	42.1	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	84	%	EPA 625	-88	-88	6	145	X
2010/11-2	MO-THO	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	7.07	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	71	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	MO-VEN	srgt environ	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	49.2	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	98	%	EPA 625	-88	-88	6	145	X
2010/11-2	MO-VEN	srgt matrix spike	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	46.6	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	53.8	µg/L	EPA 625	-88	-88			X
2010/11-2	MO-VEN	srgt matrix spike dup, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	108	%	EPA 625	-88	-88	6	145	X
2010/11-2	MO-VEN	srgt matrix spike, rec	11/12/2010	Organic	p-Terphenyl-d14	n/a	=	93	%	EPA 625	-88	-88	6	145	X
2010/11-2	MO-VEN	srgt environ	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	4.89	µg/L	EPA 8270Cm	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/16/2010	Organic	p-Terphenyl-d14	n/a	=	49	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-2	Lab	LCS	11/16/2010	Organic	Pyrene	n/a	=	4.91	µg/L	EPA 8270Cm	0.21	0.5			X
2010/11-2	Lab	LCS, rec	11/16/2010	Organic	Pyrene	n/a	=	98	%	EPA 8270Cm	-88	-88	52	115	X
2010/11-2	Lab	method blank	11/16/2010	Organic	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5			X
2010/11-2	MO-CAM	matrix spike	11/16/2010	Organic	Pyrene	n/a	=	4.98	µg/L	EPA 8270Cm	0.21	0.5			X
2010/11-2	MO-CAM	matrix spike dup	11/16/2010	Organic	Pyrene	n/a	=	5.21	µg/L	EPA 8270Cm	0.21	0.5			X
2010/11-2	MO-CAM	matrix spike dup, rec	11/16/2010	Organic	Pyrene	n/a	=	99	%	EPA 8270Cm	-88	-88	52	115	X
2010/11-2	MO-CAM	matrix spike, rec	11/16/2010	Organic	Pyrene	n/a	=	95	%	EPA 8270Cm	-88	-88	52	115	X
2010/11-2	MO-CAM	matrix spike, RPD	11/16/2010	Organic	Pyrene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-2	Lab	srgt LCS	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.381	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	76	%	EPA 608	-88	-88	26	131	X
2010/11-2	Lab	srgt method blank	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.36	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	72	%	EPA 608	-88	-88	26	131	X
2010/11-2	Lab	srgt LCS	11/8/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.49	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/8/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	98	%	EPA 608	-88	-88	26	131	X
2010/11-2	Lab	srgt method blank	11/8/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.457	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/8/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	91	%	EPA 608	-88	-88	26	131	X
2010/11-2	Lab	srgt LCS	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.436	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	87	%	EPA 608	-88	-88	26	131	X
2010/11-2	Lab	srgt method blank	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.443	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	89	%	EPA 608	-88	-88	26	131	X
2010/11-2	Lab	srgt LCS	11/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.457	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	91	%	EPA 608	-88	-88	26	131	X
2010/11-2	Lab	srgt method blank	11/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.456	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/15/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	91	%	EPA 608	-88	-88	26	131	X
2010/11-2	ME-CC	srgt environ	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0434	µg/L	EPA 608	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	43	%	EPA 608	-88	-88	26	131	X
2010/11-2	ME-SCR	srgt environ	11/7/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0315	µg/L	EPA 608	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/7/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	31	%	EPA 608	-88	-88	26	131	X
2010/11-2	ME-VR2	srgt environ	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0674	µg/L	EPA 608	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	67	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-CAM	srgt environ	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0697	µg/L	EPA 608	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-CAM	srgt environ, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	70	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-FIL	srgt environ	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0524	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	52	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-FIL	srgt matrix spike	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.051	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-FIL	srgt matrix spike dup	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0489	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-FIL	srgt matrix spike dup, rec	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	49	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-FIL	srgt matrix spike, rec	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	51	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-HUE	srgt environ	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0405	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/6/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	40	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-MPK	srgt environ	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0367	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	37	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-OXN	srgt environ	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0701	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	70	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-OXN	srgt matrix spike	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0657	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-OXN	srgt matrix spike dup	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0708	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-OXN	srgt matrix spike dup, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	71	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-OXN	srgt matrix spike, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	66	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-SIM	srgt environ	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0615	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	62	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-SPA	srgt environ	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0634	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	63	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-THO	srgt environ	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0776	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	78	%	EPA 608	-88	-88	26	131	X
2010/11-2	MO-VEN	srgt environ	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0646	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/14/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	65	%	EPA 608	-88	-88	26	131	X
2010/11-2	Lab	srgt LCS	11/24/2010	Organic	Triphenylphosphate	n/a	=	4.54	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/24/2010	Organic	Triphenylphosphate	n/a	=	91	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt matrix spike	11/24/2010	Organic	Triphenylphosphate	n/a	=	5.7	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup	11/24/2010	Organic	Triphenylphosphate	n/a	=	5.45	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup, rec	11/24/2010	Organic	Triphenylphosphate	n/a	=	109	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt matrix spike, rec	11/24/2010	Organic	Triphenylphosphate	n/a	=	107	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt method blank	11/24/2010	Organic	Triphenylphosphate	n/a	=	4.27	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/24/2010	Organic	Triphenylphosphate	n/a	=	85	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt LCS	11/29/2010	Organic	Triphenylphosphate	n/a	=	5.98	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/29/2010	Organic	Triphenylphosphate	n/a	=	120	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt matrix spike	11/29/2010	Organic	Triphenylphosphate	n/a	=	6.11	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup	11/29/2010	Organic	Triphenylphosphate	n/a	=	5.8	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup, rec	11/29/2010	Organic	Triphenylphosphate	n/a	=	116	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt matrix spike, rec	11/29/2010	Organic	Triphenylphosphate	n/a	=	114	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt method blank	11/29/2010	Organic	Triphenylphosphate	n/a	=	5.75	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/29/2010	Organic	Triphenylphosphate	n/a	=	115	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt LCS	12/1/2010	Organic	Triphenylphosphate	n/a	=	0.321	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	Lab	srgt LCS	12/1/2010	Organic	Triphenylphosphate	n/a	=	0.497	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS dup	12/1/2010	Organic	Triphenylphosphate	n/a	=	0.354	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS dup, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	71	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt LCS, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	64	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	Lab	srgt LCS, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	99	%	EPA 525.2	-88	-88	71	150	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	srgt matrix spike	12/1/2010	Organic	Triphenylphosphate	n/a	=	0.488	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup	12/1/2010	Organic	Triphenylphosphate	n/a	=	0.594	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt matrix spike dup, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	119	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt matrix spike, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	98	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt method blank	12/1/2010	Organic	Triphenylphosphate	n/a	=	0.402	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt method blank	12/1/2010	Organic	Triphenylphosphate	n/a	=	0.637	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	80	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt method blank, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	127	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt LCS	12/6/2010	Organic	Triphenylphosphate	n/a	=	0.365	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt LCS dup	12/6/2010	Organic	Triphenylphosphate	n/a	=	0.323	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	Lab	srgt LCS dup, rec	12/6/2010	Organic	Triphenylphosphate	n/a	=	65	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	Lab	srgt LCS, rec	12/6/2010	Organic	Triphenylphosphate	n/a	=	73	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	Lab	srgt method blank	12/7/2010	Organic	Triphenylphosphate	n/a	=	0.452	µg/L	EPA 525.2	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	12/7/2010	Organic	Triphenylphosphate	n/a	=	90	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	ME-CC	srgt environ	11/24/2010	Organic	Triphenylphosphate	n/a	=	5.44	µg/L	EPA 525.2	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/24/2010	Organic	Triphenylphosphate	n/a	=	109	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	ME-CC	srgt environ	12/6/2010	Organic	Triphenylphosphate	n/a	=	0.286	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	ME-CC	srgt environ, rec	12/6/2010	Organic	Triphenylphosphate	n/a	=	57	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	ME-SCR	srgt environ	11/24/2010	Organic	Triphenylphosphate	n/a	=	5.03	µg/L	EPA 525.2	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/24/2010	Organic	Triphenylphosphate	n/a	=	101	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	ME-SCR	srgt environ	12/1/2010	Organic	Triphenylphosphate	n/a	=	0.93	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	ME-SCR	srgt environ, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	186	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	ME-VR2	srgt environ	11/24/2010	Organic	Triphenylphosphate	n/a	=	5.94	µg/L	EPA 525.2	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/24/2010	Organic	Triphenylphosphate	n/a	=	119	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	ME-VR2	srgt environ	12/1/2010	Organic	Triphenylphosphate	n/a	=	0.877	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	ME-VR2	srgt environ, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	175	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	MO-CAM	srgt environ	11/24/2010	Organic	Triphenylphosphate	n/a	=	5.15	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/24/2010	Organic	Triphenylphosphate	n/a	=	103	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	MO-CAM	srgt environ	12/1/2010	Organic	Triphenylphosphate	n/a	=	1.49	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	MO-CAM	srgt environ, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	298	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	MO-FIL	srgt environ	11/24/2010	Organic	Triphenylphosphate	n/a	=	5.81	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/24/2010	Organic	Triphenylphosphate	n/a	=	116	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	MO-FIL	srgt environ	12/6/2010	Organic	Triphenylphosphate	n/a	=	0.246	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	MO-FIL	srgt environ, rec	12/6/2010	Organic	Triphenylphosphate	n/a	=	49	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	MO-HUE	srgt environ	11/24/2010	Organic	Triphenylphosphate	n/a	=	5.98	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/24/2010	Organic	Triphenylphosphate	n/a	=	120	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	MO-HUE	srgt environ	12/6/2010	Organic	Triphenylphosphate	n/a	=	0.402	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	12/6/2010	Organic	Triphenylphosphate	n/a	=	80	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	MO-MPK	srgt environ	11/29/2010	Organic	Triphenylphosphate	n/a	=	5.18	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/29/2010	Organic	Triphenylphosphate	n/a	=	104	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	MO-MPK	srgt environ	12/2/2010	Organic	Triphenylphosphate	n/a	=	2.2	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	12/2/2010	Organic	Triphenylphosphate	n/a	=	440	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	MO-OXN	srgt environ	11/29/2010	Organic	Triphenylphosphate	n/a	=	5.26	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/29/2010	Organic	Triphenylphosphate	n/a	=	105	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	MO-OXN	srgt environ	12/2/2010	Organic	Triphenylphosphate	n/a	=	1.4	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	MO-OXN	srgt environ, rec	12/2/2010	Organic	Triphenylphosphate	n/a	=	279	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	MO-SIM	srgt environ	11/29/2010	Organic	Triphenylphosphate	n/a	=	5.67	µg/L	EPA 525.2	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-SIM	srgt environ, rec	11/29/2010	Organic	Triphenylphosphate	n/a	=	107	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	MO-SIM	srgt environ	12/2/2010	Organic	Triphenylphosphate	n/a	=	1.54	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	MO-SIM	srgt environ, rec	12/2/2010	Organic	Triphenylphosphate	n/a	=	308	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	MO-SPA	srgt environ	11/29/2010	Organic	Triphenylphosphate	n/a	=	5.41	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/29/2010	Organic	Triphenylphosphate	n/a	=	103	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	MO-SPA	srgt environ	12/1/2010	Organic	Triphenylphosphate	n/a	=	2.66	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	MO-SPA	srgt environ, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	532	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	MO-THO	srgt environ	11/29/2010	Organic	Triphenylphosphate	n/a	=	5.95	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/29/2010	Organic	Triphenylphosphate	n/a	=	112	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	MO-THO	srgt environ	12/2/2010	Organic	Triphenylphosphate	n/a	=	0.896	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	12/2/2010	Organic	Triphenylphosphate	n/a	=	179	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	MO-VEN	srgt environ	11/29/2010	Organic	Triphenylphosphate	n/a	=	5.86	µg/L	EPA 525.2	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/29/2010	Organic	Triphenylphosphate	n/a	=	109	%	EPA 525.2	-88	-88	71	150	X
2010/11-2	MO-VEN	srgt environ	12/1/2010	Organic	Triphenylphosphate	n/a	=	2.62	µg/L	EPA 525.2	-88	-88			GN
2010/11-2	MO-VEN	srgt environ, rec	12/1/2010	Organic	Triphenylphosphate	n/a	=	525	%	EPA 525.2	-88	-88	71	150	GN
2010/11-2	Lab	srgt LCS	11/6/2010	PCB	PCB 209	n/a	=	0.36	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/6/2010	PCB	PCB 209	n/a	=	72	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	Lab	srgt method blank	11/6/2010	PCB	PCB 209	n/a	=	0.36	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/6/2010	PCB	PCB 209	n/a	=	72	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	Lab	srgt LCS	11/8/2010	PCB	PCB 209	n/a	=	0.495	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/8/2010	PCB	PCB 209	n/a	=	99	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	Lab	srgt method blank	11/8/2010	PCB	PCB 209	n/a	=	0.482	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/8/2010	PCB	PCB 209	n/a	=	96	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	Lab	srgt LCS	11/14/2010	PCB	PCB 209	n/a	=	0.448	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/14/2010	PCB	PCB 209	n/a	=	90	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	Lab	srgt method blank	11/14/2010	PCB	PCB 209	n/a	=	0.446	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/14/2010	PCB	PCB 209	n/a	=	89	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	Lab	srgt LCS	11/15/2010	PCB	PCB 209	n/a	=	0.481	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt LCS, rec	11/15/2010	PCB	PCB 209	n/a	=	96	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	Lab	srgt method blank	11/15/2010	PCB	PCB 209	n/a	=	0.48	µg/L	EPA 608	-88	-88			X
2010/11-2	Lab	srgt method blank, rec	11/15/2010	PCB	PCB 209	n/a	=	96	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	ME-CC	srgt environ	11/6/2010	PCB	PCB 209	n/a	=	0.0306	µg/L	EPA 608	-88	-88			X
2010/11-2	ME-CC	srgt environ, rec	11/6/2010	PCB	PCB 209	n/a	=	31	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	ME-SCR	srgt environ	11/7/2010	PCB	PCB 209	n/a	=	0.0184	µg/L	EPA 608	-88	-88			X
2010/11-2	ME-SCR	srgt environ, rec	11/7/2010	PCB	PCB 209	n/a	=	18	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	ME-VR2	srgt environ	11/14/2010	PCB	PCB 209	n/a	=	0.0483	µg/L	EPA 608	-88	-88			X
2010/11-2	ME-VR2	srgt environ, rec	11/14/2010	PCB	PCB 209	n/a	=	48	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-CAM	srgt environ	11/14/2010	PCB	PCB 209	n/a	=	0.0555	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-CAM	srgt environ, rec	11/14/2010	PCB	PCB 209	n/a	=	55	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-FIL	srgt environ	11/6/2010	PCB	PCB 209	n/a	=	0.0377	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-FIL	srgt environ, rec	11/6/2010	PCB	PCB 209	n/a	=	38	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-FIL	srgt matrix spike	11/6/2010	PCB	PCB 209	n/a	=	0.0458	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-FIL	srgt matrix spike dup	11/6/2010	PCB	PCB 209	n/a	=	0.0405	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-FIL	srgt matrix spike dup, rec	11/6/2010	PCB	PCB 209	n/a	=	41	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-FIL	srgt matrix spike, rec	11/6/2010	PCB	PCB 209	n/a	=	46	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-HUE	srgt environ	11/6/2010	PCB	PCB 209	n/a	=	0.0412	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-HUE	srgt environ, rec	11/6/2010	PCB	PCB 209	n/a	=	41	%	EPA 608	-88	-88	0.1	154	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-MPK	srgt environ	11/14/2010	PCB	PCB 209	n/a	=	0.0527	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-MPK	srgt environ, rec	11/14/2010	PCB	PCB 209	n/a	=	53	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-OXN	srgt environ	11/14/2010	PCB	PCB 209	n/a	=	0.0487	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-OXN	srgt environ, rec	11/14/2010	PCB	PCB 209	n/a	=	49	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-OXN	srgt matrix spike	11/14/2010	PCB	PCB 209	n/a	=	0.045	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-OXN	srgt matrix spike dup	11/14/2010	PCB	PCB 209	n/a	=	0.0538	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-OXN	srgt matrix spike dup, rec	11/14/2010	PCB	PCB 209	n/a	=	54	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-OXN	srgt matrix spike, rec	11/14/2010	PCB	PCB 209	n/a	=	45	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-SIM	srgt environ	11/14/2010	PCB	PCB 209	n/a	=	0.0571	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-SIM	srgt environ, rec	11/14/2010	PCB	PCB 209	n/a	=	57	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-SPA	srgt environ	11/14/2010	PCB	PCB 209	n/a	=	0.0409	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-SPA	srgt environ, rec	11/14/2010	PCB	PCB 209	n/a	=	41	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-THO	srgt environ	11/14/2010	PCB	PCB 209	n/a	=	0.062	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-THO	srgt environ, rec	11/14/2010	PCB	PCB 209	n/a	=	62	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	MO-VEN	srgt environ	11/14/2010	PCB	PCB 209	n/a	=	0.0453	µg/L	EPA 608	-88	-88			X
2010/11-2	MO-VEN	srgt environ, rec	11/14/2010	PCB	PCB 209	n/a	=	45	%	EPA 608	-88	-88	0.1	154	X
2010/11-2	Lab	method blank	11/6/2010	PCB	PCB Aroclor 1016	n/a	<	0.25	µg/L	EPA 608	0.25	2.5			X
2010/11-2	Lab	method blank	11/8/2010	PCB	PCB Aroclor 1016	n/a	<	0.25	µg/L	EPA 608	0.25	2.5			X
2010/11-2	Lab	method blank	11/14/2010	PCB	PCB Aroclor 1016	n/a	<	0.25	µg/L	EPA 608	0.25	2.5			X
2010/11-2	Lab	method blank	11/15/2010	PCB	PCB Aroclor 1016	n/a	<	0.25	µg/L	EPA 608	0.25	2.5			X
2010/11-2	Lab	method blank	11/6/2010	PCB	PCB Aroclor 1221	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			X
2010/11-2	Lab	method blank	11/8/2010	PCB	PCB Aroclor 1221	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			X
2010/11-2	Lab	method blank	11/14/2010	PCB	PCB Aroclor 1221	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			X
2010/11-2	Lab	method blank	11/15/2010	PCB	PCB Aroclor 1221	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			X
2010/11-2	Lab	method blank	11/6/2010	PCB	PCB Aroclor 1232	n/a	<	0.75	µg/L	EPA 608	0.75	2.5			X
2010/11-2	Lab	method blank	11/8/2010	PCB	PCB Aroclor 1232	n/a	<	0.75	µg/L	EPA 608	0.75	2.5			X
2010/11-2	Lab	method blank	11/14/2010	PCB	PCB Aroclor 1232	n/a	<	0.75	µg/L	EPA 608	0.75	2.5			X
2010/11-2	Lab	method blank	11/15/2010	PCB	PCB Aroclor 1232	n/a	<	0.75	µg/L	EPA 608	0.75	2.5			X
2010/11-2	Lab	method blank	11/6/2010	PCB	PCB Aroclor 1242	n/a	<	0.35	µg/L	EPA 608	0.35	2.5			X
2010/11-2	Lab	method blank	11/8/2010	PCB	PCB Aroclor 1242	n/a	<	0.35	µg/L	EPA 608	0.35	2.5			X
2010/11-2	Lab	method blank	11/14/2010	PCB	PCB Aroclor 1242	n/a	<	0.35	µg/L	EPA 608	0.35	2.5			X
2010/11-2	Lab	method blank	11/15/2010	PCB	PCB Aroclor 1242	n/a	<	0.35	µg/L	EPA 608	0.35	2.5			X
2010/11-2	Lab	method blank	11/6/2010	PCB	PCB Aroclor 1248	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			X
2010/11-2	Lab	method blank	11/8/2010	PCB	PCB Aroclor 1248	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			X
2010/11-2	Lab	method blank	11/14/2010	PCB	PCB Aroclor 1248	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			X
2010/11-2	Lab	method blank	11/15/2010	PCB	PCB Aroclor 1248	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			X
2010/11-2	Lab	method blank	11/6/2010	PCB	PCB Aroclor 1254	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			X
2010/11-2	Lab	method blank	11/8/2010	PCB	PCB Aroclor 1254	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			X
2010/11-2	Lab	method blank	11/14/2010	PCB	PCB Aroclor 1254	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			X
2010/11-2	Lab	method blank	11/15/2010	PCB	PCB Aroclor 1254	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			X
2010/11-2	Lab	method blank	11/6/2010	PCB	PCB Aroclor 1260	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			X
2010/11-2	Lab	method blank	11/8/2010	PCB	PCB Aroclor 1260	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			X
2010/11-2	Lab	method blank	11/14/2010	PCB	PCB Aroclor 1260	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			X
2010/11-2	Lab	method blank	11/15/2010	PCB	PCB Aroclor 1260	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	2,4,5-T	n/a	=	1.86	µg/L	EPA 515.3	0.05	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	2,4,5-T	n/a	=	1.84	µg/L	EPA 515.3	0.05	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	2,4,5-T	n/a	=	92	%	EPA 515.3	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	2,4,5-T	n/a	=	93	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	2,4,5-T	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	2,4,5-T	n/a	=	1.78	µg/L	EPA 515.3	0.05	0.2			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	2,4,5-T	n/a	=	1.9	µg/L	EPA 515.3	0.05	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	2,4,5-T	n/a	=	2.12	µg/L	EPA 515.3	0.05	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	2,4,5-T	n/a	=	1.9	µg/L	EPA 515.3	0.05	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	2,4,5-T	n/a	=	106	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	2,4,5-T	n/a	=	95	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	2,4,5-T	n/a	=	95	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	2,4,5-T	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	2,4,5-T	n/a	=	11	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	2,4,5-T	n/a	=	6	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	2,4,5-T	n/a	=	1.76	µg/L	EPA 515.3	0.05	0.2			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	2,4,5-T	n/a	=	88	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	2,4,5-T	n/a	=	1.68	µg/L	EPA 515.3	0.05	0.2			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	2,4,5-T	n/a	=	84	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	2,4,5-TP	n/a	=	1.74	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	2,4,5-TP	n/a	=	1.76	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	2,4,5-TP	n/a	=	88	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	2,4,5-TP	n/a	=	87	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	2,4,5-TP	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	2,4,5-TP	n/a	=	1.85	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	2,4,5-TP	n/a	=	1.83	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	2,4,5-TP	n/a	=	1.9	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	2,4,5-TP	n/a	=	1.93	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	2,4,5-TP	n/a	=	95	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	2,4,5-TP	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	2,4,5-TP	n/a	=	93	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	2,4,5-TP	n/a	=	91	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	2,4,5-TP	n/a	=	4	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	2,4,5-TP	n/a	=	4	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	2,4,5-TP	n/a	=	1.67	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	2,4,5-TP	n/a	=	83	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	2,4,5-TP	n/a	=	1.76	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	2,4,5-TP	n/a	=	88	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	2,4-D	n/a	=	3.34	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	2,4-D	n/a	=	3.36	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	2,4-D	n/a	=	84	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	2,4-D	n/a	=	84	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	2,4-D	n/a	=	0.4	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	2,4-D	n/a	=	3.7	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	2,4-D	n/a	=	3.44	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	2,4-D	n/a	=	3.88	µg/L	EPA 515.3	0.05	0.4			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	2,4-D	n/a	=	3.56	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	2,4-D	n/a	=	97	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	2,4-D	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	2,4-D	n/a	=	86	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	2,4-D	n/a	=	92	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	2,4-D	n/a	=	4	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	2,4-D	n/a	=	5	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	2,4-D	n/a	=	3.08	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	2,4-D	n/a	=	77	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	2,4-D	n/a	=	3.34	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	2,4-D	n/a	=	83	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	2,4-DB	n/a	=	6.66	µg/L	EPA 515.3	0.42	2			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	2,4-DB	n/a	=	6.39	µg/L	EPA 515.3	0.42	2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	2,4-DB	n/a	=	80	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	2,4-DB	n/a	=	83	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	2,4-DB	n/a	=	4	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	2,4-DB	n/a	=	7.14	µg/L	EPA 515.3	0.42	2			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	2,4-DB	n/a	=	5.84	µg/L	EPA 515.3	0.42	2			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	2,4-DB	n/a	=	6.31	µg/L	EPA 515.3	0.42	2			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	2,4-DB	n/a	=	8	µg/L	EPA 515.3	0.42	2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	2,4-DB	n/a	=	79	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	2,4-DB	n/a	=	100	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	2,4-DB	n/a	=	73	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	2,4-DB	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	2,4-DB	n/a	=	8	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	2,4-DB	n/a	=	11	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	2,4-DB	n/a	=	6.28	µg/L	EPA 515.3	0.42	2			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	2,4-DB	n/a	=	78	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	2,4-DB	n/a	=	6.39	µg/L	EPA 515.3	0.42	2			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	2,4-DB	n/a	=	80	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	3.95	µg/L	EPA 515.3	0.08	1			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	3.99	µg/L	EPA 515.3	0.08	1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	100	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	99	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	4.1	µg/L	EPA 515.3	0.08	1			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	3.99	µg/L	EPA 515.3	0.08	1			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	4.32	µg/L	EPA 515.3	0.08	1			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	3.73	µg/L	EPA 515.3	0.08	1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	108	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	93	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	100	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	103	%	EPA 515.3	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	7	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	5	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	3.93	µg/L	EPA 515.3	0.08	1			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	98	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	3.87	µg/L	EPA 515.3	0.08	1			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	97	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1			X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	4,4'-DDD	n/a	=	0.418	µg/L	EPA 608	0.015	0.25			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	4,4'-DDD	n/a	=	84	%	EPA 608	-88	-88	30	141	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	4,4'-DDD	n/a	<	0.015	µg/L	EPA 608	0.015	0.25			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	4,4'-DDD	n/a	=	0.572	µg/L	EPA 608	0.015	0.25			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	4,4'-DDD	n/a	=	114	%	EPA 608	-88	-88	30	141	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	4,4'-DDD	n/a	<	0.015	µg/L	EPA 608	0.015	0.25			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	4,4'-DDD	n/a	=	0.587	µg/L	EPA 608	0.015	0.25			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	4,4'-DDD	n/a	=	117	%	EPA 608	-88	-88	30	141	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	4,4'-DDD	n/a	<	0.015	µg/L	EPA 608	0.015	0.25			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	4,4'-DDD	n/a	=	0.55	µg/L	EPA 608	0.015	0.25			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	4,4'-DDD	n/a	=	110	%	EPA 608	-88	-88	30	141	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	4,4'-DDD	n/a	<	0.015	µg/L	EPA 608	0.015	0.25			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	4,4'-DDD	n/a	=	0.0679	µg/L	EPA 608	0.003	0.05			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	4,4'-DDD	n/a	=	0.0626	µg/L	EPA 608	0.003	0.05			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	4,4'-DDD	n/a	=	63	%	EPA 608	-88	-88	31	141	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	4,4'-DDD	n/a	=	68	%	EPA 608	-88	-88	31	141	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	4,4'-DDD	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	4,4'-DDD	n/a	=	0.0966	µg/L	EPA 608	0.003	0.05			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	4,4'-DDD	n/a	=	0.107	µg/L	EPA 608	0.003	0.05			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	4,4'-DDD	n/a	=	107	%	EPA 608	-88	-88	31	141	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	4,4'-DDD	n/a	=	97	%	EPA 608	-88	-88	31	141	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	4,4'-DDD	n/a	=	11	%	EPA 608	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	4,4'-DDE	n/a	=	0.424	µg/L	EPA 608	0.012	0.25			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	4,4'-DDE	n/a	=	85	%	EPA 608	-88	-88	30	145	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	4,4'-DDE	n/a	<	0.012	µg/L	EPA 608	0.012	0.25			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	4,4'-DDE	n/a	=	0.555	µg/L	EPA 608	0.012	0.25			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	4,4'-DDE	n/a	=	111	%	EPA 608	-88	-88	30	145	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	4,4'-DDE	n/a	<	0.012	µg/L	EPA 608	0.012	0.25			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	4,4'-DDE	n/a	=	0.532	µg/L	EPA 608	0.012	0.25			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	4,4'-DDE	n/a	=	106	%	EPA 608	-88	-88	30	145	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	4,4'-DDE	n/a	<	0.012	µg/L	EPA 608	0.012	0.25			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	4,4'-DDE	n/a	=	0.545	µg/L	EPA 608	0.012	0.25			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	4,4'-DDE	n/a	=	109	%	EPA 608	-88	-88	30	145	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	4,4'-DDE	n/a	<	0.012	µg/L	EPA 608	0.012	0.25			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	4,4'-DDE	n/a	=	0.0661	µg/L	EPA 608	0.0025	0.05			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	4,4'-DDE	n/a	=	0.0594	µg/L	EPA 608	0.0025	0.05			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	4,4'-DDE	n/a	=	59	%	EPA 608	-88	-88	30	145	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	4,4'-DDE	n/a	=	66	%	EPA 608	-88	-88	30	145	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	4,4'-DDE	n/a	=	11	%	EPA 608	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	4,4'-DDE	n/a	=	0.111	µg/L	EPA 608	0.0025	0.05			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	4,4'-DDE	n/a	=	0.11	µg/L	EPA 608	0.0025	0.05			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	4,4'-DDE	n/a	=	80	%	EPA 608	-88	-88	30	145	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	4,4'-DDE	n/a	=	81	%	EPA 608	-88	-88	30	145	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	4,4'-DDE	n/a	=	0.8	%	EPA 608	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	4,4'-DDT	n/a	=	0.408	µg/L	EPA 608	0.016	0.05			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	4,4'-DDT	n/a	=	82	%	EPA 608	-88	-88	25	160	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	4,4'-DDT	n/a	<	0.016	µg/L	EPA 608	0.016	0.05			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	4,4'-DDT	n/a	=	0.628	µg/L	EPA 608	0.016	0.05			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	4,4'-DDT	n/a	=	126	%	EPA 608	-88	-88	25	160	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	4,4'-DDT	n/a	<	0.016	µg/L	EPA 608	0.016	0.05			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	4,4'-DDT	n/a	=	0.524	µg/L	EPA 608	0.016	0.05			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	4,4'-DDT	n/a	=	105	%	EPA 608	-88	-88	25	160	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	4,4'-DDT	n/a	<	0.016	µg/L	EPA 608	0.016	0.05			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	4,4'-DDT	n/a	=	0.644	µg/L	EPA 608	0.016	0.05			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	4,4'-DDT	n/a	=	129	%	EPA 608	-88	-88	25	160	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	4,4'-DDT	n/a	<	0.016	µg/L	EPA 608	0.016	0.05			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	4,4'-DDT	n/a	=	0.0799	µg/L	EPA 608	0.0031	0.01			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	4,4'-DDT	n/a	=	0.0729	µg/L	EPA 608	0.0031	0.01			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	4,4'-DDT	n/a	=	73	%	EPA 608	-88	-88	25	160	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	4,4'-DDT	n/a	=	80	%	EPA 608	-88	-88	25	160	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	4,4'-DDT	n/a	=	9	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	4,4'-DDT	n/a	=	0.102	µg/L	EPA 608	0.0031	0.01			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	4,4'-DDT	n/a	=	0.108	µg/L	EPA 608	0.0031	0.01			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	4,4'-DDT	n/a	=	84	%	EPA 608	-88	-88	25	160	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	4,4'-DDT	n/a	=	79	%	EPA 608	-88	-88	25	160	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	4,4'-DDT	n/a	=	5	%	EPA 608	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	Acifluorfen	n/a	=	1.55	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	Acifluorfen	n/a	=	1.56	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	Acifluorfen	n/a	=	78	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	Acifluorfen	n/a	=	78	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	Acifluorfen	n/a	=	0.5	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Acifluorfen	n/a	=	1.69	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Acifluorfen	n/a	=	1.68	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Acifluorfen	n/a	=	1.75	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Acifluorfen	n/a	=	1.72	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Acifluorfen	n/a	=	86	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Acifluorfen	n/a	=	88	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Acifluorfen	n/a	=	84	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Acifluorfen	n/a	=	85	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Acifluorfen	n/a	=	2	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Acifluorfen	n/a	=	3	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	Acifluorfen	n/a	=	1.47	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	Acifluorfen	n/a	=	74	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	Acifluorfen	n/a	=	1.67	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	Acifluorfen	n/a	=	83	%	EPA 515.3	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	method blank	11/16/2010	Pesticide	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Alachlor	n/a	=	5.1	µg/L	EPA 525.2	0.07	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Alachlor	n/a	=	4.62	µg/L	EPA 525.2	0.07	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Alachlor	n/a	=	92	%	EPA 525.2	-88	-88	58	177	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Alachlor	n/a	=	95	%	EPA 525.2	-88	-88	58	177	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Alachlor	n/a	=	10	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Alachlor	n/a	=	4.79	µg/L	EPA 525.2	0.07	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Alachlor	n/a	=	4.53	µg/L	EPA 525.2	0.07	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Alachlor	n/a	=	91	%	EPA 525.2	-88	-88	58	177	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Alachlor	n/a	=	90	%	EPA 525.2	-88	-88	58	177	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Alachlor	n/a	=	6	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Alachlor	n/a	=	5.63	µg/L	EPA 525.2	0.07	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Alachlor	n/a	=	113	%	EPA 525.2	-88	-88	58	164	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Alachlor	n/a	=	4.45	µg/L	EPA 525.2	0.07	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Alachlor	n/a	=	89	%	EPA 525.2	-88	-88	58	164	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1			X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	Aldrin	n/a	=	0.442	µg/L	EPA 608	0.0075	0.025			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	Aldrin	n/a	=	88	%	EPA 608	-88	-88	42	122	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Aldrin	n/a	<	0.0075	µg/L	EPA 608	0.0075	0.025			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	Aldrin	n/a	=	0.536	µg/L	EPA 608	0.0075	0.025			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	Aldrin	n/a	=	107	%	EPA 608	-88	-88	42	122	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Aldrin	n/a	<	0.0075	µg/L	EPA 608	0.0075	0.025			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	Aldrin	n/a	=	0.498	µg/L	EPA 608	0.0075	0.025			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	Aldrin	n/a	=	100	%	EPA 608	-88	-88	42	122	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Aldrin	n/a	<	0.0075	µg/L	EPA 608	0.0075	0.025			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	Aldrin	n/a	=	0.521	µg/L	EPA 608	0.0075	0.025			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	Aldrin	n/a	=	104	%	EPA 608	-88	-88	42	122	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Aldrin	n/a	<	0.0075	µg/L	EPA 608	0.0075	0.025			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	Aldrin	n/a	=	0.067	µg/L	EPA 608	0.0015	0.005			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	Aldrin	n/a	=	0.0618	µg/L	EPA 608	0.0015	0.005			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	Aldrin	n/a	=	62	%	EPA 608	-88	-88	42	122	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	Aldrin	n/a	=	67	%	EPA 608	-88	-88	42	122	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	Aldrin	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	Aldrin	n/a	=	0.0867	µg/L	EPA 608	0.0015	0.005			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	Aldrin	n/a	=	0.0891	µg/L	EPA 608	0.0015	0.005			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	Aldrin	n/a	=	89	%	EPA 608	-88	-88	42	122	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	Aldrin	n/a	=	87	%	EPA 608	-88	-88	42	122	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	Aldrin	n/a	=	3	%	EPA 608	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	alpha-BHC	n/a	=	0.391	µg/L	EPA 608	0.009	0.05			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	alpha-BHC	n/a	=	78	%	EPA 608	-88	-88	37	134	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	alpha-BHC	n/a	<	0.009	µg/L	EPA 608	0.009	0.05			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	alpha-BHC	n/a	=	0.535	µg/L	EPA 608	0.009	0.05			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	alpha-BHC	n/a	=	107	%	EPA 608	-88	-88	37	134	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	alpha-BHC	n/a	<	0.009	µg/L	EPA 608	0.009	0.05			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	alpha-BHC	n/a	=	0.507	µg/L	EPA 608	0.009	0.05			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	alpha-BHC	n/a	=	101	%	EPA 608	-88	-88	37	134	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	method blank	11/14/2010	Pesticide	alpha-BHC	n/a	<	0.009	µg/L	EPA 608	0.009	0.05			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	alpha-BHC	n/a	=	0.483	µg/L	EPA 608	0.009	0.05			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	alpha-BHC	n/a	=	97	%	EPA 608	-88	-88	37	134	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	alpha-BHC	n/a	<	0.009	µg/L	EPA 608	0.009	0.05			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	alpha-BHC	n/a	=	0.0697	µg/L	EPA 608	0.0018	0.01			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	alpha-BHC	n/a	=	0.0628	µg/L	EPA 608	0.0018	0.01			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	alpha-BHC	n/a	=	63	%	EPA 608	-88	-88	37	134	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	alpha-BHC	n/a	=	70	%	EPA 608	-88	-88	37	134	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	alpha-BHC	n/a	=	10	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	alpha-BHC	n/a	=	0.0937	µg/L	EPA 608	0.0018	0.01			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	alpha-BHC	n/a	=	0.0978	µg/L	EPA 608	0.0018	0.01			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	alpha-BHC	n/a	=	98	%	EPA 608	-88	-88	37	134	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	alpha-BHC	n/a	=	94	%	EPA 608	-88	-88	37	134	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	alpha-BHC	n/a	=	4	%	EPA 608	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Atrazine	n/a	=	4.02	µg/L	EPA 525.2	0.047	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Atrazine	n/a	=	4.09	µg/L	EPA 525.2	0.047	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Atrazine	n/a	=	82	%	EPA 525.2	-88	-88	53	142	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Atrazine	n/a	=	75	%	EPA 525.2	-88	-88	53	142	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Atrazine	n/a	=	2	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Atrazine	n/a	=	4.53	µg/L	EPA 525.2	0.047	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Atrazine	n/a	=	4.5	µg/L	EPA 525.2	0.047	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Atrazine	n/a	=	90	%	EPA 525.2	-88	-88	53	142	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Atrazine	n/a	=	85	%	EPA 525.2	-88	-88	53	142	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Atrazine	n/a	=	0.8	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Atrazine	n/a	=	4.09	µg/L	EPA 525.2	0.047	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Atrazine	n/a	=	82	%	EPA 525.2	-88	-88	68	133	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Atrazine	n/a	=	4.49	µg/L	EPA 525.2	0.047	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Atrazine	n/a	=	90	%	EPA 525.2	-88	-88	68	133	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Azinphos methyl	n/a	=	0.0728	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Azinphos methyl	n/a	=	0.0993	µg/L	EPA 525.2	0.0055	0.01			GB
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Azinphos methyl	n/a	=	199	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Azinphos methyl	n/a	=	146	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Azinphos methyl	n/a	=	31	%	EPA 525.2	-88	-88	0	25	IL
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Azinphos methyl	n/a	=	0.068	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Azinphos methyl	n/a	=	136	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Azinphos methyl	n/a	=	0.0289	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Azinphos methyl	n/a	=	17	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Azinphos methyl	n/a	=	58	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Azinphos methyl	n/a	=	110	%	EPA 525.2	-88	-88	0	25	IL
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	Bentazon	n/a	=	6.2	µg/L	EPA 515.3	0.23	2			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	Bentazon	n/a	=	6.16	µg/L	EPA 515.3	0.23	2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	Bentazon	n/a	=	77	%	EPA 515.3	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	Bentazon	n/a	=	78	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	Bentazon	n/a	=	0.6	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Bentazon	n/a	=	7.07	µg/L	EPA 515.3	0.23	2			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Bentazon	n/a	=	6.24	µg/L	EPA 515.3	0.23	2			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Bentazon	n/a	=	4.88	µg/L	EPA 515.3	0.23	2			GB
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Bentazon	n/a	=	7.02	µg/L	EPA 515.3	0.23	2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Bentazon	n/a	=	88	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Bentazon	n/a	=	61	%	EPA 515.3	-88	-88	70	130	GB
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Bentazon	n/a	=	88	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Bentazon	n/a	=	78	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Bentazon	n/a	=	24	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Bentazon	n/a	=	0.7	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	Bentazon	n/a	=	5.78	µg/L	EPA 515.3	0.23	2			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	Bentazon	n/a	=	72	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	Bentazon	n/a	=	7.06	µg/L	EPA 515.3	0.23	2			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	Bentazon	n/a	=	88	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2			X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	beta-BHC	n/a	=	0.423	µg/L	EPA 608	0.016	0.025			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	beta-BHC	n/a	=	85	%	EPA 608	-88	-88	14	147	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	beta-BHC	n/a	<	0.016	µg/L	EPA 608	0.016	0.025			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	beta-BHC	n/a	=	0.56	µg/L	EPA 608	0.016	0.025			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	beta-BHC	n/a	=	112	%	EPA 608	-88	-88	14	147	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	beta-BHC	n/a	<	0.016	µg/L	EPA 608	0.016	0.025			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	beta-BHC	n/a	=	0.525	µg/L	EPA 608	0.016	0.025			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	beta-BHC	n/a	=	105	%	EPA 608	-88	-88	14	147	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	beta-BHC	n/a	<	0.016	µg/L	EPA 608	0.016	0.025			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	beta-BHC	n/a	=	0.546	µg/L	EPA 608	0.016	0.025			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	beta-BHC	n/a	=	109	%	EPA 608	-88	-88	14	147	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	beta-BHC	n/a	<	0.016	µg/L	EPA 608	0.016	0.025			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	beta-BHC	n/a	=	0.0708	µg/L	EPA 608	0.0031	0.005			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	beta-BHC	n/a	=	0.0594	µg/L	EPA 608	0.0031	0.005			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	beta-BHC	n/a	=	59	%	EPA 608	-88	-88	17	147	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	beta-BHC	n/a	=	71	%	EPA 608	-88	-88	17	147	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	beta-BHC	n/a	=	17	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	beta-BHC	n/a	=	0.0883	µg/L	EPA 608	0.0031	0.005			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	beta-BHC	n/a	=	0.0923	µg/L	EPA 608	0.0031	0.005			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	beta-BHC	n/a	=	92	%	EPA 608	-88	-88	17	147	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	beta-BHC	n/a	=	88	%	EPA 608	-88	-88	17	147	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	beta-BHC	n/a	=	4	%	EPA 608	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Bolstar	n/a	=	0.0738	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Bolstar	n/a	=	0.079	µg/L	EPA 525.2	0.0046	0.01			GB
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Bolstar	n/a	=	158	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Bolstar	n/a	=	148	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Bolstar	n/a	=	7	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Bolstar	n/a	=	0.0689	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Bolstar	n/a	=	138	%	EPA 525.2	-88	-88	50	150	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Bolstar	n/a	=	0.0581	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Bolstar	n/a	=	0.0453	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Bolstar	n/a	=	91	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Bolstar	n/a	=	116	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Bolstar	n/a	=	25	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Bromacil	n/a	=	5.27	µg/L	EPA 525.2	0.9	1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Bromacil	n/a	=	5.19	µg/L	EPA 525.2	0.9	1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Bromacil	n/a	=	104	%	EPA 525.2	-88	-88	71	182	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Bromacil	n/a	=	99	%	EPA 525.2	-88	-88	71	182	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Bromacil	n/a	=	2	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Bromacil	n/a	=	5.51	µg/L	EPA 525.2	0.9	1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Bromacil	n/a	=	5.03	µg/L	EPA 525.2	0.9	1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Bromacil	n/a	=	101	%	EPA 525.2	-88	-88	71	182	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Bromacil	n/a	=	103	%	EPA 525.2	-88	-88	71	182	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Bromacil	n/a	=	9	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Bromacil	n/a	=	5.93	µg/L	EPA 525.2	0.9	1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Bromacil	n/a	=	119	%	EPA 525.2	-88	-88	43	177	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Bromacil	n/a	=	5.69	µg/L	EPA 525.2	0.9	1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Bromacil	n/a	=	114	%	EPA 525.2	-88	-88	43	177	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Butachlor	n/a	=	5.51	µg/L	EPA 525.2	0.1	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Butachlor	n/a	=	4.71	µg/L	EPA 525.2	0.1	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Butachlor	n/a	=	94	%	EPA 525.2	-88	-88	67	181	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Butachlor	n/a	=	103	%	EPA 525.2	-88	-88	67	181	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Butachlor	n/a	=	16	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Butachlor	n/a	=	5.57	µg/L	EPA 525.2	0.1	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Butachlor	n/a	=	4.69	µg/L	EPA 525.2	0.1	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Butachlor	n/a	=	94	%	EPA 525.2	-88	-88	67	181	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Butachlor	n/a	=	104	%	EPA 525.2	-88	-88	67	181	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Butachlor	n/a	=	17	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Butachlor	n/a	=	5.74	µg/L	EPA 525.2	0.1	0.2			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Butachlor	n/a	=	115	%	EPA 525.2	-88	-88	55	178	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Butachlor	n/a	=	4.89	µg/L	EPA 525.2	0.1	0.2			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Butachlor	n/a	=	98	%	EPA 525.2	-88	-88	55	178	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Captan	n/a	=	5.11	µg/L	EPA 525.2	0.86	1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Captan	n/a	=	5.23	µg/L	EPA 525.2	0.86	1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Captan	n/a	=	105	%	EPA 525.2	-88	-88	45	182	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Captan	n/a	=	96	%	EPA 525.2	-88	-88	45	182	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Captan	n/a	=	2	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Captan	n/a	=	5.83	µg/L	EPA 525.2	0.86	1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Captan	n/a	=	5.34	µg/L	EPA 525.2	0.86	1			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Captan	n/a	=	107	%	EPA 525.2	-88	-88	45	182	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Captan	n/a	=	109	%	EPA 525.2	-88	-88	45	182	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Captan	n/a	=	9	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Captan	n/a	=	4.8	µg/L	EPA 525.2	0.86	1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Captan	n/a	=	96	%	EPA 525.2	-88	-88	20	215	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Captan	n/a	=	4.98	µg/L	EPA 525.2	0.86	1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Captan	n/a	=	100	%	EPA 525.2	-88	-88	20	215	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1			X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Chlordane (technical)	n/a	<	0.4	µg/L	EPA 608	0.4	0.5			X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Chlordane (technical)	n/a	<	0.4	µg/L	EPA 608	0.4	0.5			X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Chlordane (technical)	n/a	<	0.4	µg/L	EPA 608	0.4	0.5			X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Chlordane (technical)	n/a	<	0.4	µg/L	EPA 608	0.4	0.5			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Chloropropham	n/a	=	4.61	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Chloropropham	n/a	=	4.89	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Chloropropham	n/a	=	98	%	EPA 525.2	-88	-88	76	137	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Chloropropham	n/a	=	86	%	EPA 525.2	-88	-88	76	137	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Chloropropham	n/a	=	6	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Chloropropham	n/a	=	5.25	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Chloropropham	n/a	=	5.21	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Chloropropham	n/a	=	104	%	EPA 525.2	-88	-88	76	137	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Chloropropham	n/a	=	98	%	EPA 525.2	-88	-88	76	137	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Chloropropham	n/a	=	0.8	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Chloropropham	n/a	=	4.34	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Chloropropham	n/a	=	87	%	EPA 525.2	-88	-88	74	133	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Chloropropham	n/a	=	4.49	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Chloropropham	n/a	=	90	%	EPA 525.2	-88	-88	74	133	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	0.0693	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	0.0741	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	148	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	139	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	7	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	0.0507	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	0.0695	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-2	Lab	LCS dup	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	0.0579	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-2	Lab	LCS dup, rec	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	116	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	139	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	101	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/1/2010	Pesticide	Chlorpyrifos	n/a	=	13	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Chlorpyrifos	n/a	=	0.0602	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Chlorpyrifos	n/a	=	0.0569	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Chlorpyrifos	n/a	=	114	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Chlorpyrifos	n/a	=	120	%	EPA 525.2	-88	-88	50	150	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Chlorpyrifos	n/a	=	6	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Coumaphos	n/a	=	0.0903	µg/L	EPA 525.2	0.0051	0.01			GB
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Coumaphos	n/a	=	0.116	µg/L	EPA 525.2	0.0051	0.01			GB
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Coumaphos	n/a	=	231	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Coumaphos	n/a	=	181	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Coumaphos	n/a	=	25	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Coumaphos	n/a	=	0.0746	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Coumaphos	n/a	=	149	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Coumaphos	n/a	=	0.0581	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Coumaphos	n/a	=	0.0488	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Coumaphos	n/a	=	98	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Coumaphos	n/a	=	116	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Coumaphos	n/a	=	17	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Cyanazine	n/a	=	2.75	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Cyanazine	n/a	=	2.54	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Cyanazine	n/a	=	51	%	EPA 525.2	-88	-88	26	145	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Cyanazine	n/a	=	51	%	EPA 525.2	-88	-88	26	145	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Cyanazine	n/a	=	8	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Cyanazine	n/a	=	2.71	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Cyanazine	n/a	=	2.64	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Cyanazine	n/a	=	53	%	EPA 525.2	-88	-88	26	145	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Cyanazine	n/a	=	51	%	EPA 525.2	-88	-88	26	145	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Cyanazine	n/a	=	2	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Cyanazine	n/a	=	3.98	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Cyanazine	n/a	=	80	%	EPA 525.2	-88	-88	69	131	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Cyanazine	n/a	=	5.07	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Cyanazine	n/a	=	101	%	EPA 525.2	-88	-88	69	131	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	Dalapon	n/a	=	3.73	µg/L	EPA 515.3	0.04	0.4			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	Dalapon	n/a	=	3.67	µg/L	EPA 515.3	0.04	0.4			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	Dalapon	n/a	=	92	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	Dalapon	n/a	=	93	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	Dalapon	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Dalapon	n/a	=	3.96	µg/L	EPA 515.3	0.04	0.4			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Dalapon	n/a	=	4.21	µg/L	EPA 515.3	0.04	0.4			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Dalapon	n/a	=	4.13	µg/L	EPA 515.3	0.04	0.4			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Dalapon	n/a	=	4.08	µg/L	EPA 515.3	0.04	0.4			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Dalapon	n/a	=	91	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Dalapon	n/a	=	102	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Dalapon	n/a	=	93	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Dalapon	n/a	=	99	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Dalapon	n/a	=	2	%	EPA 515.3	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Dalapon	n/a	=	3	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	Dalapon	n/a	=	3.59	µg/L	EPA 515.3	0.04	0.4			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	Dalapon	n/a	=	90	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	Dalapon	n/a	=	3.95	µg/L	EPA 515.3	0.04	0.4			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	Dalapon	n/a	=	99	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.46	µg/L	EPA 515.3	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.42	µg/L	EPA 515.3	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	DCPA (Dacthal)	n/a	=	71	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	DCPA (Dacthal)	n/a	=	73	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	DCPA (Dacthal)	n/a	=	3	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.54	µg/L	EPA 515.3	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.52	µg/L	EPA 515.3	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.61	µg/L	EPA 515.3	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.43	µg/L	EPA 515.3	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	71	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	81	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	76	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	77	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	6	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	7	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.45	µg/L	EPA 515.3	0.02	0.1			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	DCPA (Dacthal)	n/a	=	72	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.56	µg/L	EPA 515.3	0.02	0.1			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	=	78	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1			X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	delta-BHC	n/a	=	0.39	µg/L	EPA 608	0.012	0.025			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	delta-BHC	n/a	=	78	%	EPA 608	-88	-88	19	140	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	delta-BHC	n/a	<	0.012	µg/L	EPA 608	0.012	0.025			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	delta-BHC	n/a	=	0.536	µg/L	EPA 608	0.012	0.025			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	delta-BHC	n/a	=	107	%	EPA 608	-88	-88	19	140	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	delta-BHC	n/a	<	0.012	µg/L	EPA 608	0.012	0.025			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	delta-BHC	n/a	=	0.511	µg/L	EPA 608	0.012	0.025			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	delta-BHC	n/a	=	102	%	EPA 608	-88	-88	19	140	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	delta-BHC	n/a	<	0.012	µg/L	EPA 608	0.012	0.025			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	delta-BHC	n/a	=	0.514	µg/L	EPA 608	0.012	0.025			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	delta-BHC	n/a	=	103	%	EPA 608	-88	-88	19	140	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	delta-BHC	n/a	<	0.012	µg/L	EPA 608	0.012	0.025			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	delta-BHC	n/a	=	0.0647	µg/L	EPA 608	0.0025	0.005			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	delta-BHC	n/a	=	0.0587	µg/L	EPA 608	0.0025	0.005			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	delta-BHC	n/a	=	59	%	EPA 608	-88	-88	19	140	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	delta-BHC	n/a	=	65	%	EPA 608	-88	-88	19	140	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	delta-BHC	n/a	=	10	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	delta-BHC	n/a	=	0.0963	µg/L	EPA 608	0.0025	0.005			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	delta-BHC	n/a	=	0.0921	µg/L	EPA 608	0.0025	0.005			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	delta-BHC	n/a	=	92	%	EPA 608	-88	-88	19	140	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	delta-BHC	n/a	=	96	%	EPA 608	-88	-88	19	140	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	delta-BHC	n/a	=	4	%	EPA 608	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Demeton-O	n/a	=	0.0462	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Demeton-O	n/a	=	0.0447	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Demeton-O	n/a	=	89	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Demeton-O	n/a	=	92	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Demeton-O	n/a	=	3	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Demeton-O	n/a	=	0.0403	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Demeton-O	n/a	=	81	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Demeton-O	n/a	=	0.0717	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Demeton-O	n/a	=	0.0566	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Demeton-O	n/a	=	113	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Demeton-O	n/a	=	143	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Demeton-O	n/a	=	23	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Demeton-S	n/a	=	0.043	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Demeton-S	n/a	=	0.0359	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Demeton-S	n/a	=	72	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Demeton-S	n/a	=	86	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Demeton-S	n/a	=	18	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Demeton-S	n/a	=	0.044	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Demeton-S	n/a	=	88	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Demeton-S	n/a	=	0.0717	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Demeton-S	n/a	=	0.0566	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Demeton-S	n/a	=	113	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Demeton-S	n/a	=	143	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Demeton-S	n/a	=	23	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Diazinon	n/a	=	0.0562	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Diazinon	n/a	=	0.0681	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Diazinon	n/a	=	136	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Diazinon	n/a	=	112	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Diazinon	n/a	=	19	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Diazinon	n/a	=	0.066	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Diazinon	n/a	=	132	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Diazinon	n/a	=	0.0562	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Diazinon	n/a	=	0.0558	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Diazinon	n/a	=	112	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Diazinon	n/a	=	112	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Diazinon	n/a	=	0.7	%	EPA 525.2	-88	-88	0	25	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	Dicamba	n/a	=	3.65	µg/L	EPA 515.3	0.08	0.6			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	Dicamba	n/a	=	3.69	µg/L	EPA 515.3	0.08	0.6			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	Dicamba	n/a	=	92	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	Dicamba	n/a	=	91	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	Dicamba	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Dicamba	n/a	=	3.91	µg/L	EPA 515.3	0.08	0.6			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Dicamba	n/a	=	3.46	µg/L	EPA 515.3	0.08	0.6			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Dicamba	n/a	=	4.08	µg/L	EPA 515.3	0.08	0.6			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Dicamba	n/a	=	3.57	µg/L	EPA 515.3	0.08	0.6			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Dicamba	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Dicamba	n/a	=	102	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Dicamba	n/a	=	98	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Dicamba	n/a	=	86	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Dicamba	n/a	=	3	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Dicamba	n/a	=	4	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	Dicamba	n/a	=	3.56	µg/L	EPA 515.3	0.08	0.6			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	Dicamba	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	Dicamba	n/a	=	3.82	µg/L	EPA 515.3	0.08	0.6			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	Dicamba	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	Dichlorprop	n/a	=	3.56	µg/L	EPA 515.3	0.06	0.3			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	Dichlorprop	n/a	=	3.58	µg/L	EPA 515.3	0.06	0.3			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	Dichlorprop	n/a	=	90	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	Dichlorprop	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	Dichlorprop	n/a	=	0.6	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Dichlorprop	n/a	=	3.8	µg/L	EPA 515.3	0.06	0.3			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Dichlorprop	n/a	=	3.95	µg/L	EPA 515.3	0.06	0.3			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Dichlorprop	n/a	=	5.22	µg/L	EPA 515.3	0.06	0.3			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Dichlorprop	n/a	=	4.2	µg/L	EPA 515.3	0.06	0.3			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Dichlorprop	n/a	=	105	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Dichlorprop	n/a	=	130	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Dichlorprop	n/a	=	95	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Dichlorprop	n/a	=	99	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Dichlorprop	n/a	=	6	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Dichlorprop	n/a	=	31	%	EPA 515.3	-88	-88	0	30	IL
2010/11-2	Lab	LCS	11/5/2010	Pesticide	Dichlorprop	n/a	=	3.43	µg/L	EPA 515.3	0.06	0.3			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	Dichlorprop	n/a	=	86	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	Dichlorprop	n/a	=	3.86	µg/L	EPA 515.3	0.06	0.3			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	Dichlorprop	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Dichlorvos	n/a	=	0.0502	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Dichlorvos	n/a	=	0.044	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Dichlorvos	n/a	=	88	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Dichlorvos	n/a	=	100	%	EPA 525.2	-88	-88	50	150	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Dichlorvos	n/a	=	13	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Dichlorvos	n/a	=	0.0591	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Dichlorvos	n/a	=	118	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Dichlorvos	n/a	=	0.0512	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Dichlorvos	n/a	=	0.0455	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Dichlorvos	n/a	=	91	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Dichlorvos	n/a	=	102	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Dichlorvos	n/a	=	12	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	Dieldrin	n/a	=	0.425	µg/L	EPA 608	0.01	0.05			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	Dieldrin	n/a	=	85	%	EPA 608	-88	-88	36	146	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Dieldrin	n/a	<	0.01	µg/L	EPA 608	0.01	0.05			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	Dieldrin	n/a	=	0.553	µg/L	EPA 608	0.01	0.05			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	Dieldrin	n/a	=	111	%	EPA 608	-88	-88	36	146	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Dieldrin	n/a	<	0.01	µg/L	EPA 608	0.01	0.05			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	Dieldrin	n/a	=	0.517	µg/L	EPA 608	0.01	0.05			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	Dieldrin	n/a	=	103	%	EPA 608	-88	-88	36	146	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Dieldrin	n/a	<	0.01	µg/L	EPA 608	0.01	0.05			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	Dieldrin	n/a	=	0.58	µg/L	EPA 608	0.01	0.05			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	Dieldrin	n/a	=	116	%	EPA 608	-88	-88	36	146	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Dieldrin	n/a	<	0.01	µg/L	EPA 608	0.01	0.05			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	Dieldrin	n/a	=	0.0689	µg/L	EPA 608	0.0021	0.01			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	Dieldrin	n/a	=	0.0637	µg/L	EPA 608	0.0021	0.01			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	Dieldrin	n/a	=	64	%	EPA 608	-88	-88	36	146	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	Dieldrin	n/a	=	69	%	EPA 608	-88	-88	36	146	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	Dieldrin	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	Dieldrin	n/a	=	0.0873	µg/L	EPA 608	0.0021	0.01			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	Dieldrin	n/a	=	0.0886	µg/L	EPA 608	0.0021	0.01			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	Dieldrin	n/a	=	89	%	EPA 608	-88	-88	36	146	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	Dieldrin	n/a	=	87	%	EPA 608	-88	-88	36	146	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	Dieldrin	n/a	=	1	%	EPA 608	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Dimethoate	n/a	=	0.0492	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Dimethoate	n/a	=	0.0642	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Dimethoate	n/a	=	128	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Dimethoate	n/a	=	98	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Dimethoate	n/a	=	27	%	EPA 525.2	-88	-88	0	25	IL
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Dimethoate	n/a	=	0.0398	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Dimethoate	n/a	=	80	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Dimethoate	n/a	DNQ	0.0076	µg/L	EPA 525.2	0.0062	0.01			IP
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Dimethoate	n/a	=	0.0506	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Dimethoate	n/a	=	0.0324	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Dimethoate	n/a	=	65	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Dimethoate	n/a	=	101	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Dimethoate	n/a	=	44	%	EPA 525.2	-88	-88	0	25	IL

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	Dinoseb	n/a	=	1.8	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	Dinoseb	n/a	=	1.79	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	Dinoseb	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	Dinoseb	n/a	=	90	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	Dinoseb	n/a	=	0.5	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Dinoseb	n/a	=	1.86	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Dinoseb	n/a	=	1.98	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Dinoseb	n/a	=	2.07	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Dinoseb	n/a	=	1.95	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Dinoseb	n/a	=	104	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Dinoseb	n/a	=	97	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Dinoseb	n/a	=	93	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Dinoseb	n/a	=	99	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Dinoseb	n/a	=	4	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Dinoseb	n/a	=	5	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	Dinoseb	n/a	=	1.69	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	Dinoseb	n/a	=	84	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	Dinoseb	n/a	=	1.8	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	Dinoseb	n/a	=	90	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Diphenamid	n/a	=	4.76	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Diphenamid	n/a	=	4.74	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Diphenamid	n/a	=	95	%	EPA 525.2	-88	-88	86	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Diphenamid	n/a	=	89	%	EPA 525.2	-88	-88	86	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Diphenamid	n/a	=	0.4	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Diphenamid	n/a	=	5.14	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Diphenamid	n/a	=	5.03	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Diphenamid	n/a	=	101	%	EPA 525.2	-88	-88	86	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Diphenamid	n/a	=	96	%	EPA 525.2	-88	-88	86	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Diphenamid	n/a	=	2	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Diphenamid	n/a	=	4.37	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Diphenamid	n/a	=	87	%	EPA 525.2	-88	-88	82	144	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Diphenamid	n/a	=	4.95	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Diphenamid	n/a	=	99	%	EPA 525.2	-88	-88	82	144	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Disulfoton	n/a	=	0.0484	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Disulfoton	n/a	=	0.0311	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Disulfoton	n/a	=	62	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Disulfoton	n/a	=	97	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Disulfoton	n/a	=	44	%	EPA 525.2	-88	-88	0	25	IL
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Disulfoton	n/a	=	0.0452	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Disulfoton	n/a	=	0.052	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS dup	12/1/2010	Pesticide	Disulfoton	n/a	=	0.0525	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS dup, rec	12/1/2010	Pesticide	Disulfoton	n/a	=	105	%	EPA 525.2	-88	-88	50	150	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Disulfoton	n/a	=	90	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Disulfoton	n/a	=	104	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/1/2010	Pesticide	Disulfoton	n/a	=	15	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Disulfoton	n/a	=	0.0729	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Disulfoton	n/a	=	0.0725	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Disulfoton	n/a	=	145	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Disulfoton	n/a	=	146	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Disulfoton	n/a	=	0.5	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	Endosulfan I	n/a	=	0.427	µg/L	EPA 608	0.0085	0.1			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	Endosulfan I	n/a	=	85	%	EPA 608	-88	-88	45	153	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Endosulfan I	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.1			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	Endosulfan I	n/a	=	0.56	µg/L	EPA 608	0.0085	0.1			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	Endosulfan I	n/a	=	112	%	EPA 608	-88	-88	45	153	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Endosulfan I	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.1			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	Endosulfan I	n/a	=	0.496	µg/L	EPA 608	0.0085	0.1			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	Endosulfan I	n/a	=	99	%	EPA 608	-88	-88	45	153	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Endosulfan I	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.1			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	Endosulfan I	n/a	=	0.527	µg/L	EPA 608	0.0085	0.1			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	Endosulfan I	n/a	=	105	%	EPA 608	-88	-88	45	153	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Endosulfan I	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.1			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	Endosulfan I	n/a	=	0.0732	µg/L	EPA 608	0.0017	0.02			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	Endosulfan I	n/a	=	0.0671	µg/L	EPA 608	0.0017	0.02			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	Endosulfan I	n/a	=	67	%	EPA 608	-88	-88	45	153	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	Endosulfan I	n/a	=	73	%	EPA 608	-88	-88	45	153	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	Endosulfan I	n/a	=	9	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	Endosulfan I	n/a	=	0.0893	µg/L	EPA 608	0.0017	0.02			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	Endosulfan I	n/a	=	0.0926	µg/L	EPA 608	0.0017	0.02			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	Endosulfan I	n/a	=	93	%	EPA 608	-88	-88	45	153	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	Endosulfan I	n/a	=	89	%	EPA 608	-88	-88	45	153	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	Endosulfan I	n/a	=	4	%	EPA 608	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	Endosulfan II	n/a	=	0.405	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	Endosulfan II	n/a	=	81	%	EPA 608	-88	-88	2	202	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Endosulfan II	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	Endosulfan II	n/a	=	0.565	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	Endosulfan II	n/a	=	113	%	EPA 608	-88	-88	2	202	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Endosulfan II	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	Endosulfan II	n/a	=	0.475	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	Endosulfan II	n/a	=	95	%	EPA 608	-88	-88	2	202	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Endosulfan II	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	Endosulfan II	n/a	=	0.553	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	Endosulfan II	n/a	=	111	%	EPA 608	-88	-88	2	202	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Endosulfan II	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	Endosulfan II	n/a	=	0.0365	µg/L	EPA 608	0.0019	0.01			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	Endosulfan II	n/a	=	0.0296	µg/L	EPA 608	0.0019	0.01			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	Endosulfan II	n/a	=	30	%	EPA 608	-88	-88	2	202	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	Endosulfan II	n/a	=	36	%	EPA 608	-88	-88	2	202	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	Endosulfan II	n/a	=	21	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	Endosulfan II	n/a	=	0.033	µg/L	EPA 608	0.0019	0.01			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	Endosulfan II	n/a	=	0.0213	µg/L	EPA 608	0.0019	0.01			GB
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	Endosulfan II	n/a	=	21	%	EPA 608	-88	-88	2	202	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	Endosulfan II	n/a	=	33	%	EPA 608	-88	-88	2	202	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	Endosulfan II	n/a	=	43	%	EPA 608	-88	-88	0	30	IL
2010/11-2	Lab	LCS	11/6/2010	Pesticide	Endosulfan sulfate	n/a	=	0.365	µg/L	EPA 608	0.04	0.25			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	Endosulfan sulfate	n/a	=	73	%	EPA 608	-88	-88	26	144	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Endosulfan sulfate	n/a	<	0.04	µg/L	EPA 608	0.04	0.25			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	Endosulfan sulfate	n/a	=	0.542	µg/L	EPA 608	0.04	0.25			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	Endosulfan sulfate	n/a	=	108	%	EPA 608	-88	-88	26	144	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Endosulfan sulfate	n/a	<	0.04	µg/L	EPA 608	0.04	0.25			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	Endosulfan sulfate	n/a	=	0.563	µg/L	EPA 608	0.04	0.25			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	Endosulfan sulfate	n/a	=	113	%	EPA 608	-88	-88	26	144	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Endosulfan sulfate	n/a	<	0.04	µg/L	EPA 608	0.04	0.25			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	Endosulfan sulfate	n/a	=	0.565	µg/L	EPA 608	0.04	0.25			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	Endosulfan sulfate	n/a	=	113	%	EPA 608	-88	-88	26	144	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Endosulfan sulfate	n/a	<	0.04	µg/L	EPA 608	0.04	0.25			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	Endosulfan sulfate	n/a	=	0.0292	µg/L	EPA 608	0	0			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	Endosulfan sulfate	n/a	=	0.0218	µg/L	EPA 608	0	0			GB
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	Endosulfan sulfate	n/a	=	22	%	EPA 608	-88	-88	26	144	GB
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	Endosulfan sulfate	n/a	=	29	%	EPA 608	-88	-88	26	144	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	Endosulfan sulfate	n/a	=	29	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	Endosulfan sulfate	n/a	=	0.0299	µg/L	EPA 608	0	0			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	Endosulfan sulfate	n/a	=	0.0159	µg/L	EPA 608	0	0			GB
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	Endosulfan sulfate	n/a	=	16	%	EPA 608	-88	-88	26	144	GB
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	Endosulfan sulfate	n/a	=	30	%	EPA 608	-88	-88	26	144	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	Endosulfan sulfate	n/a	=	61	%	EPA 608	-88	-88	0	30	IL
2010/11-2	Lab	LCS	11/6/2010	Pesticide	Endrin	n/a	=	0.435	µg/L	EPA 608	0.014	0.05			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	Endrin	n/a	=	87	%	EPA 608	-88	-88	30	147	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Endrin	n/a	<	0.014	µg/L	EPA 608	0.014	0.05			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	Endrin	n/a	=	0.584	µg/L	EPA 608	0.014	0.05			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	Endrin	n/a	=	117	%	EPA 608	-88	-88	30	147	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Endrin	n/a	<	0.014	µg/L	EPA 608	0.014	0.05			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	Endrin	n/a	=	0.644	µg/L	EPA 608	0.014	0.05			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	Endrin	n/a	=	129	%	EPA 608	-88	-88	30	147	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Endrin	n/a	<	0.014	µg/L	EPA 608	0.014	0.05			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	Endrin	n/a	=	0.741	µg/L	EPA 608	0.014	0.05			EUM
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	Endrin	n/a	=	148	%	EPA 608	-88	-88	30	147	EUM
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Endrin	n/a	<	0.014	µg/L	EPA 608	0.014	0.05			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	Endrin	n/a	=	0.0788	µg/L	EPA 608	0.0028	0.01			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	Endrin	n/a	=	0.0724	µg/L	EPA 608	0.0028	0.01			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	Endrin	n/a	=	72	%	EPA 608	-88	-88	30	147	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	Endrin	n/a	=	79	%	EPA 608	-88	-88	30	147	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	Endrin	n/a	=	8	%	EPA 608	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	Endrin	n/a	=	0.124	µg/L	EPA 608	0.0028	0.01			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	Endrin	n/a	=	0.13	µg/L	EPA 608	0.0028	0.01			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	Endrin	n/a	=	130	%	EPA 608	-88	-88	30	147	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	Endrin	n/a	=	124	%	EPA 608	-88	-88	30	147	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	Endrin	n/a	=	5	%	EPA 608	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	Endrin aldehyde	n/a	=	0.41	µg/L	EPA 608	0.015	0.05			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	Endrin aldehyde	n/a	=	82	%	EPA 608	-88	-88	41	203	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Endrin aldehyde	n/a	<	0.015	µg/L	EPA 608	0.015	0.05			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	Endrin aldehyde	n/a	=	0.612	µg/L	EPA 608	0.015	0.05			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	Endrin aldehyde	n/a	=	122	%	EPA 608	-88	-88	41	203	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Endrin aldehyde	n/a	<	0.015	µg/L	EPA 608	0.015	0.05			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	Endrin aldehyde	n/a	=	0.507	µg/L	EPA 608	0.015	0.05			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	Endrin aldehyde	n/a	=	101	%	EPA 608	-88	-88	41	203	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Endrin aldehyde	n/a	<	0.015	µg/L	EPA 608	0.015	0.05			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	Endrin aldehyde	n/a	=	0.546	µg/L	EPA 608	0.015	0.05			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	Endrin aldehyde	n/a	=	109	%	EPA 608	-88	-88	41	203	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Endrin aldehyde	n/a	<	0.015	µg/L	EPA 608	0.015	0.05			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	Endrin aldehyde	n/a	=	0.0367	µg/L	EPA 608	0.003	0.01			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	Endrin aldehyde	n/a	=	0.0306	µg/L	EPA 608	0.003	0.01			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	Endrin aldehyde	n/a	=	31	%	EPA 608	-88	-88	30	180	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	Endrin aldehyde	n/a	=	37	%	EPA 608	-88	-88	30	180	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	Endrin aldehyde	n/a	=	18	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	Endrin aldehyde	n/a	=	0.0294	µg/L	EPA 608	0.003	0.01			GB
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	Endrin aldehyde	n/a	=	0.0219	µg/L	EPA 608	0.003	0.01			GB
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	Endrin aldehyde	n/a	=	22	%	EPA 608	-88	-88	30	180	GB
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	Endrin aldehyde	n/a	=	29	%	EPA 608	-88	-88	30	180	GB
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	Endrin aldehyde	n/a	=	29	%	EPA 608	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	EPTC	n/a	=	4.68	µg/L	EPA 525.2	0.23	1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	EPTC	n/a	=	4.61	µg/L	EPA 525.2	0.23	1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	EPTC	n/a	=	92	%	EPA 525.2	-88	-88	67	119	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	EPTC	n/a	=	88	%	EPA 525.2	-88	-88	67	119	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	EPTC	n/a	=	2	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	EPTC	n/a	=	4.91	µg/L	EPA 525.2	0.23	1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	EPTC	n/a	=	4.61	µg/L	EPA 525.2	0.23	1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	EPTC	n/a	=	92	%	EPA 525.2	-88	-88	67	119	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	EPTC	n/a	=	92	%	EPA 525.2	-88	-88	67	119	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	EPTC	n/a	=	6	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	EPTC	n/a	=	4.36	µg/L	EPA 525.2	0.23	1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	EPTC	n/a	=	87	%	EPA 525.2	-88	-88	75	110	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	EPTC	n/a	=	4.44	µg/L	EPA 525.2	0.23	1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	EPTC	n/a	=	89	%	EPA 525.2	-88	-88	75	110	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Ethoprop	n/a	=	0.0571	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Ethoprop	n/a	=	0.0628	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Ethoprop	n/a	=	126	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Ethoprop	n/a	=	114	%	EPA 525.2	-88	-88	50	150	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Ethoprop	n/a	=	10	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Ethoprop	n/a	=	0.0538	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Ethoprop	n/a	=	108	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Ethoprop	n/a	=	0.0539	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Ethoprop	n/a	=	0.0518	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Ethoprop	n/a	=	104	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Ethoprop	n/a	=	108	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Ethoprop	n/a	=	4	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Ethyl parathion	n/a	=	0.0477	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Ethyl parathion	n/a	=	0.0539	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Ethyl parathion	n/a	=	108	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Ethyl parathion	n/a	=	95	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Ethyl parathion	n/a	=	12	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Ethyl parathion	n/a	=	0.0569	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Ethyl parathion	n/a	=	114	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Ethyl parathion	n/a	=	0.0601	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Ethyl parathion	n/a	=	0.0569	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Ethyl parathion	n/a	=	114	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Ethyl parathion	n/a	=	120	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Ethyl parathion	n/a	=	5	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Fensulfothion	n/a	=	0.0605	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Fensulfothion	n/a	=	0.0785	µg/L	EPA 525.2	0.0029	0.01			GB
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Fensulfothion	n/a	=	157	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Fensulfothion	n/a	=	121	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Fensulfothion	n/a	=	26	%	EPA 525.2	-88	-88	0	25	IL
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Fensulfothion	n/a	=	0.0692	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Fensulfothion	n/a	=	138	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Fensulfothion	n/a	=	0.0636	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Fensulfothion	n/a	=	0.0545	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Fensulfothion	n/a	=	109	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Fensulfothion	n/a	=	127	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Fensulfothion	n/a	=	15	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Fenthion	n/a	=	0.0735	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Fenthion	n/a	=	0.0851	µg/L	EPA 525.2	0.0038	0.01			GB
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Fenthion	n/a	=	170	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Fenthion	n/a	=	147	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Fenthion	n/a	=	15	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Fenthion	n/a	=	0.068	µg/L	EPA 525.2	0.0038	0.01			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Fenthion	n/a	=	136	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Fenthion	n/a	=	0.0555	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Fenthion	n/a	=	0.053	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Fenthion	n/a	=	106	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Fenthion	n/a	=	111	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Fenthion	n/a	=	5	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.392	µg/L	EPA 608	0.01	0.1			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	78	%	EPA 608	-88	-88	32	127	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	gamma-BHC (Lindane)	n/a	<	0.01	µg/L	EPA 608	0.01	0.1			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.537	µg/L	EPA 608	0.01	0.1			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	107	%	EPA 608	-88	-88	32	127	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	gamma-BHC (Lindane)	n/a	<	0.01	µg/L	EPA 608	0.01	0.1			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.519	µg/L	EPA 608	0.01	0.1			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	104	%	EPA 608	-88	-88	32	127	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	gamma-BHC (Lindane)	n/a	<	0.01	µg/L	EPA 608	0.01	0.1			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.547	µg/L	EPA 608	0.01	0.1			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	109	%	EPA 608	-88	-88	32	127	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	gamma-BHC (Lindane)	n/a	<	0.01	µg/L	EPA 608	0.01	0.1			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0656	µg/L	EPA 608	0.0021	0.02			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0614	µg/L	EPA 608	0.0021	0.02			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	61	%	EPA 608	-88	-88	32	127	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	66	%	EPA 608	-88	-88	32	127	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	7	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0951	µg/L	EPA 608	0.0021	0.02			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0994	µg/L	EPA 608	0.0021	0.02			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	99	%	EPA 608	-88	-88	32	127	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	95	%	EPA 608	-88	-88	32	127	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	4	%	EPA 608	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/4/2010	Pesticide	Glyphosate	n/a	=	31.9	µg/L	EPA 547	1.8	5			X
2010/11-2	000NONPJ	matrix spike dup	11/4/2010	Pesticide	Glyphosate	n/a	=	29.9	µg/L	EPA 547	1.8	5			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/4/2010	Pesticide	Glyphosate	n/a	=	120	%	EPA 547	-88	-88	68	134	X
2010/11-2	000NONPJ	matrix spike, rec	11/4/2010	Pesticide	Glyphosate	n/a	=	128	%	EPA 547	-88	-88	68	134	X
2010/11-2	000NONPJ	matrix spike, RPD	11/4/2010	Pesticide	Glyphosate	n/a	=	7	%	EPA 547	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/4/2010	Pesticide	Glyphosate	n/a	=	25.6	µg/L	EPA 547	1.8	5			X
2010/11-2	Lab	LCS, rec	11/4/2010	Pesticide	Glyphosate	n/a	=	102	%	EPA 547	-88	-88	71	137	X
2010/11-2	Lab	method blank	11/4/2010	Pesticide	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5			X
2010/11-2	MO-FIL	matrix spike	11/4/2010	Pesticide	Glyphosate	n/a	=	28.5	µg/L	EPA 547	1.8	5			X
2010/11-2	MO-FIL	matrix spike dup	11/4/2010	Pesticide	Glyphosate	n/a	=	29.4	µg/L	EPA 547	1.8	5			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/4/2010	Pesticide	Glyphosate	n/a	=	94	%	EPA 547	-88	-88	68	134	X
2010/11-2	MO-FIL	matrix spike, rec	11/4/2010	Pesticide	Glyphosate	n/a	=	91	%	EPA 547	-88	-88	68	134	X
2010/11-2	MO-FIL	matrix spike, RPD	11/4/2010	Pesticide	Glyphosate	n/a	=	3	%	EPA 547	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	Heptachlor	n/a	=	0.386	µg/L	EPA 608	0.0085	0.05			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	Heptachlor	n/a	=	77	%	EPA 608	-88	-88	34	111	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Heptachlor	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.05			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS	11/8/2010	Pesticide	Heptachlor	n/a	=	0.552	µg/L	EPA 608	0.0085	0.05			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	Heptachlor	n/a	=	110	%	EPA 608	-88	-88	34	111	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Heptachlor	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.05			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	Heptachlor	n/a	=	0.543	µg/L	EPA 608	0.0085	0.05			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	Heptachlor	n/a	=	109	%	EPA 608	-88	-88	34	111	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Heptachlor	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.05			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	Heptachlor	n/a	=	0.605	µg/L	EPA 608	0.0085	0.05			EUM
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	Heptachlor	n/a	=	121	%	EPA 608	-88	-88	34	111	EUM
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Heptachlor	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.05			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	Heptachlor	n/a	=	0.0692	µg/L	EPA 608	0.0017	0.01			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	Heptachlor	n/a	=	0.0652	µg/L	EPA 608	0.0017	0.01			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	Heptachlor	n/a	=	65	%	EPA 608	-88	-88	34	111	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	Heptachlor	n/a	=	69	%	EPA 608	-88	-88	34	111	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	Heptachlor	n/a	=	6	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	Heptachlor	n/a	=	0.0981	µg/L	EPA 608	0.0017	0.01			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	Heptachlor	n/a	=	0.106	µg/L	EPA 608	0.0017	0.01			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	Heptachlor	n/a	=	106	%	EPA 608	-88	-88	34	111	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	Heptachlor	n/a	=	98	%	EPA 608	-88	-88	34	111	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	Heptachlor	n/a	=	7	%	EPA 608	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/6/2010	Pesticide	Heptachlor epoxide	n/a	=	0.443	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS, rec	11/6/2010	Pesticide	Heptachlor epoxide	n/a	=	89	%	EPA 608	-88	-88	37	142	X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Heptachlor epoxide	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS	11/8/2010	Pesticide	Heptachlor epoxide	n/a	=	0.574	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS, rec	11/8/2010	Pesticide	Heptachlor epoxide	n/a	=	115	%	EPA 608	-88	-88	37	142	X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Heptachlor epoxide	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS	11/14/2010	Pesticide	Heptachlor epoxide	n/a	=	0.511	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS, rec	11/14/2010	Pesticide	Heptachlor epoxide	n/a	=	102	%	EPA 608	-88	-88	37	142	X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Heptachlor epoxide	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS	11/15/2010	Pesticide	Heptachlor epoxide	n/a	=	0.543	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	Lab	LCS, rec	11/15/2010	Pesticide	Heptachlor epoxide	n/a	=	109	%	EPA 608	-88	-88	37	142	X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Heptachlor epoxide	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			X
2010/11-2	MO-FIL	matrix spike	11/6/2010	Pesticide	Heptachlor epoxide	n/a	=	0.0743	µg/L	EPA 608	0.0019	0.01			X
2010/11-2	MO-FIL	matrix spike dup	11/6/2010	Pesticide	Heptachlor epoxide	n/a	=	0.0688	µg/L	EPA 608	0.0019	0.01			X
2010/11-2	MO-FIL	matrix spike dup, rec	11/6/2010	Pesticide	Heptachlor epoxide	n/a	=	69	%	EPA 608	-88	-88	37	142	X
2010/11-2	MO-FIL	matrix spike, rec	11/6/2010	Pesticide	Heptachlor epoxide	n/a	=	74	%	EPA 608	-88	-88	37	142	X
2010/11-2	MO-FIL	matrix spike, RPD	11/6/2010	Pesticide	Heptachlor epoxide	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-2	MO-OXN	matrix spike	11/14/2010	Pesticide	Heptachlor epoxide	n/a	=	0.0957	µg/L	EPA 608	0.0019	0.01			X
2010/11-2	MO-OXN	matrix spike dup	11/14/2010	Pesticide	Heptachlor epoxide	n/a	=	0.0924	µg/L	EPA 608	0.0019	0.01			X
2010/11-2	MO-OXN	matrix spike dup, rec	11/14/2010	Pesticide	Heptachlor epoxide	n/a	=	92	%	EPA 608	-88	-88	37	142	X
2010/11-2	MO-OXN	matrix spike, rec	11/14/2010	Pesticide	Heptachlor epoxide	n/a	=	96	%	EPA 608	-88	-88	37	142	X
2010/11-2	MO-OXN	matrix spike, RPD	11/14/2010	Pesticide	Heptachlor epoxide	n/a	=	4	%	EPA 608	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Malathion	n/a	=	0.0516	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Malathion	n/a	=	0.0621	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Malathion	n/a	=	124	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Malathion	n/a	=	103	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Malathion	n/a	=	18	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Malathion	n/a	=	0.0528	µg/L	EPA 525.2	0.0076	0.01			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Malathion	n/a	=	106	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Malathion	n/a	=	0.0609	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Malathion	n/a	=	0.0498	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Malathion	n/a	=	100	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Malathion	n/a	=	122	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Malathion	n/a	=	20	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Merphos	n/a	=	0.0966	µg/L	EPA 525.2	0.0058	0.01			GB
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Merphos	n/a	=	0.1	µg/L	EPA 525.2	0.0058	0.01			GB
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Merphos	n/a	=	200	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Merphos	n/a	=	193	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Merphos	n/a	=	4	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Merphos	n/a	=	0.0951	µg/L	EPA 525.2	0.0058	0.01			EUM
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Merphos	n/a	=	190	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Merphos	n/a	=	0.0136	µg/L	EPA 525.2	0.0058	0.01			IP
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Merphos	n/a	=	0.0511	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Merphos	n/a	=	0.0588	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Merphos	n/a	=	118	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Merphos	n/a	=	102	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Merphos	n/a	=	14	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Methoxychlor	n/a	<	0.027	µg/L	EPA 608	0.027	0.1			X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Methoxychlor	n/a	<	0.027	µg/L	EPA 608	0.027	0.1			X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Methoxychlor	n/a	<	0.027	µg/L	EPA 608	0.027	0.1			X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Methoxychlor	n/a	<	0.027	µg/L	EPA 608	0.027	0.1			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Methyl parathion	n/a	=	0.0671	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Methyl parathion	n/a	=	0.0814	µg/L	EPA 525.2	0.0063	0.01			GB
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Methyl parathion	n/a	=	163	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Methyl parathion	n/a	=	134	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Methyl parathion	n/a	=	19	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Methyl parathion	n/a	=	0.074	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Methyl parathion	n/a	=	148	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Methyl parathion	n/a	=	0.0528	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Methyl parathion	n/a	=	0.0316	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Methyl parathion	n/a	=	63	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Methyl parathion	n/a	=	106	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Methyl parathion	n/a	=	50	%	EPA 525.2	-88	-88	0	25	IL
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Metolachlor	n/a	=	5.18	µg/L	EPA 525.2	0.056	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Metolachlor	n/a	=	4.71	µg/L	EPA 525.2	0.056	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Metolachlor	n/a	=	94	%	EPA 525.2	-88	-88	53	178	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Metolachlor	n/a	=	97	%	EPA 525.2	-88	-88	53	178	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Metolachlor	n/a	=	9	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Metolachlor	n/a	=	4.94	µg/L	EPA 525.2	0.056	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Metolachlor	n/a	=	4.62	µg/L	EPA 525.2	0.056	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Metolachlor	n/a	=	92	%	EPA 525.2	-88	-88	53	178	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Metolachlor	n/a	=	92	%	EPA 525.2	-88	-88	53	178	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Metolachlor	n/a	=	7	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Metolachlor	n/a	=	5.58	µg/L	EPA 525.2	0.056	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Metolachlor	n/a	=	112	%	EPA 525.2	-88	-88	55	170	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Metolachlor	n/a	=	4.62	µg/L	EPA 525.2	0.056	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Metolachlor	n/a	=	92	%	EPA 525.2	-88	-88	55	170	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Metribuzin	n/a	=	3.93	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Metribuzin	n/a	=	3.66	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Metribuzin	n/a	=	73	%	EPA 525.2	-88	-88	64	155	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Metribuzin	n/a	=	73	%	EPA 525.2	-88	-88	64	155	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Metribuzin	n/a	=	7	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Metribuzin	n/a	=	3.9	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Metribuzin	n/a	=	3.57	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Metribuzin	n/a	=	71	%	EPA 525.2	-88	-88	64	155	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Metribuzin	n/a	=	73	%	EPA 525.2	-88	-88	64	155	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Metribuzin	n/a	=	9	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Metribuzin	n/a	=	4.78	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Metribuzin	n/a	=	96	%	EPA 525.2	-88	-88	44	149	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Metribuzin	n/a	=	4.29	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Metribuzin	n/a	=	86	%	EPA 525.2	-88	-88	44	149	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Mevinphos	n/a	=	0.0429	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Mevinphos	n/a	=	0.0493	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Mevinphos	n/a	=	99	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Mevinphos	n/a	=	86	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Mevinphos	n/a	=	14	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Mevinphos	n/a	=	0.0401	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Mevinphos	n/a	=	80	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Mevinphos	n/a	=	0.0516	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Mevinphos	n/a	=	0.0443	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Mevinphos	n/a	=	89	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Mevinphos	n/a	=	103	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Mevinphos	n/a	=	15	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Molinate	n/a	=	4.73	µg/L	EPA 525.2	0.051	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Molinate	n/a	=	4.53	µg/L	EPA 525.2	0.051	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Molinate	n/a	=	91	%	EPA 525.2	-88	-88	68	125	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Molinate	n/a	=	88	%	EPA 525.2	-88	-88	68	125	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Molinate	n/a	=	4	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Molinate	n/a	=	4.92	µg/L	EPA 525.2	0.051	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Molinate	n/a	=	4.67	µg/L	EPA 525.2	0.051	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Molinate	n/a	=	93	%	EPA 525.2	-88	-88	68	125	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Molinate	n/a	=	92	%	EPA 525.2	-88	-88	68	125	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Molinate	n/a	=	5	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Molinate	n/a	=	4.36	µg/L	EPA 525.2	0.051	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Molinate	n/a	=	87	%	EPA 525.2	-88	-88	76	116	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Molinate	n/a	=	4.43	µg/L	EPA 525.2	0.051	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Molinate	n/a	=	89	%	EPA 525.2	-88	-88	76	116	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Naled	n/a	=	0.0426	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Naled	n/a	=	0.0403	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Naled	n/a	=	81	%	EPA 525.2	-88	-88	5	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Naled	n/a	=	85	%	EPA 525.2	-88	-88	5	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Naled	n/a	=	6	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Naled	n/a	=	0.0355	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Naled	n/a	=	71	%	EPA 525.2	-88	-88	5	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Naled	n/a	=	0.13	µg/L	EPA 525.2	0.0076	0.01			EUM
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Naled	n/a	=	0.0475	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Naled	n/a	=	95	%	EPA 525.2	-88	-88	5	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Naled	n/a	=	260	%	EPA 525.2	-88	-88	5	150	EUM
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Naled	n/a	=	93	%	EPA 525.2	-88	-88	0	25	IL
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	Pentachlorophenol	n/a	=	1.87	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	Pentachlorophenol	n/a	=	1.85	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	Pentachlorophenol	n/a	=	93	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	Pentachlorophenol	n/a	=	94	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	Pentachlorophenol	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	1.79	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	2	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	1.77	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	2.09	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	89	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	104	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	100	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	90	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	4	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	Pentachlorophenol	n/a	=	1.81	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	Pentachlorophenol	n/a	=	91	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	1.95	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	Pentachlorophenol	n/a	=	98	%	EPA 515.3	-88	-88	70	130	X

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Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	method blank	11/16/2010	Pesticide	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Phorate	n/a	=	0.0436	µg/L	EPA 525.2	0.003	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Phorate	n/a	=	0.0362	µg/L	EPA 525.2	0.003	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Phorate	n/a	=	72	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Phorate	n/a	=	87	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Phorate	n/a	=	19	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Phorate	n/a	=	0.0505	µg/L	EPA 525.2	0.003	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Phorate	n/a	=	101	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Phorate	n/a	=	0.064	µg/L	EPA 525.2	0.003	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Phorate	n/a	=	0.058	µg/L	EPA 525.2	0.003	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Phorate	n/a	=	116	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Phorate	n/a	=	128	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Phorate	n/a	=	10	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			X
2010/11-2	000NONPJ	matrix spike	11/5/2010	Pesticide	Picloram	n/a	=	1.44	µg/L	EPA 515.3	0.34	0.6			X
2010/11-2	000NONPJ	matrix spike dup	11/5/2010	Pesticide	Picloram	n/a	=	1.41	µg/L	EPA 515.3	0.34	0.6			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/5/2010	Pesticide	Picloram	n/a	=	71	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/5/2010	Pesticide	Picloram	n/a	=	72	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/5/2010	Pesticide	Picloram	n/a	=	2	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Picloram	n/a	=	1.49	µg/L	EPA 515.3	0.34	0.6			X
2010/11-2	000NONPJ	matrix spike	11/16/2010	Pesticide	Picloram	n/a	=	1.48	µg/L	EPA 515.3	0.34	0.6			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Picloram	n/a	=	1.55	µg/L	EPA 515.3	0.34	0.6			X
2010/11-2	000NONPJ	matrix spike dup	11/16/2010	Pesticide	Picloram	n/a	=	1.64	µg/L	EPA 515.3	0.34	0.6			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Picloram	n/a	=	82	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike dup, rec	11/16/2010	Pesticide	Picloram	n/a	=	78	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Picloram	n/a	=	75	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, rec	11/16/2010	Pesticide	Picloram	n/a	=	74	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Picloram	n/a	=	4	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike, RPD	11/16/2010	Pesticide	Picloram	n/a	=	10	%	EPA 515.3	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/5/2010	Pesticide	Picloram	n/a	=	1.43	µg/L	EPA 515.3	0.34	0.6			X
2010/11-2	Lab	LCS, rec	11/5/2010	Pesticide	Picloram	n/a	=	71	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/5/2010	Pesticide	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6			X
2010/11-2	Lab	LCS	11/16/2010	Pesticide	Picloram	n/a	=	1.42	µg/L	EPA 515.3	0.34	0.6			X
2010/11-2	Lab	LCS, rec	11/16/2010	Pesticide	Picloram	n/a	=	71	%	EPA 515.3	-88	-88	70	130	X
2010/11-2	Lab	method blank	11/16/2010	Pesticide	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Prometon	n/a	=	4.77	µg/L	EPA 525.2	0.16	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Prometon	n/a	=	4.5	µg/L	EPA 525.2	0.16	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Prometon	n/a	=	90	%	EPA 525.2	-88	-88	5	148	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Prometon	n/a	=	89	%	EPA 525.2	-88	-88	5	148	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Prometon	n/a	=	6	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Prometon	n/a	=	4.58	µg/L	EPA 525.2	0.16	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Prometon	n/a	=	4.44	µg/L	EPA 525.2	0.16	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Prometon	n/a	=	89	%	EPA 525.2	-88	-88	5	148	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Prometon	n/a	=	86	%	EPA 525.2	-88	-88	5	148	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Prometon	n/a	=	3	%	EPA 525.2	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Prometon	n/a	=	4.41	µg/L	EPA 525.2	0.16	0.2			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Prometon	n/a	=	88	%	EPA 525.2	-88	-88	6	110	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Prometon	n/a	=	3.5	µg/L	EPA 525.2	0.16	0.2			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Prometon	n/a	=	70	%	EPA 525.2	-88	-88	6	110	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Prometryn	n/a	=	4.9	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Prometryn	n/a	=	4.56	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Prometryn	n/a	=	91	%	EPA 525.2	-88	-88	44	169	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Prometryn	n/a	=	92	%	EPA 525.2	-88	-88	44	169	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Prometryn	n/a	=	7	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Prometryn	n/a	=	4.77	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Prometryn	n/a	=	4.51	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Prometryn	n/a	=	90	%	EPA 525.2	-88	-88	44	169	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Prometryn	n/a	=	89	%	EPA 525.2	-88	-88	44	169	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Prometryn	n/a	=	6	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Prometryn	n/a	=	5.23	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Prometryn	n/a	=	105	%	EPA 525.2	-88	-88	34	152	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Prometryn	n/a	=	4.34	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Prometryn	n/a	=	87	%	EPA 525.2	-88	-88	34	152	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0785	µg/L	EPA 525.2	0.0041	0.01			GB
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0903	µg/L	EPA 525.2	0.0041	0.01			GB
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	181	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	157	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	14	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0804	µg/L	EPA 525.2	0.0041	0.01			EUM
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	161	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0496	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0347	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	69	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	99	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	35	%	EPA 525.2	-88	-88	0	25	IL
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Simazine	n/a	=	4.51	µg/L	EPA 525.2	0.083	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Simazine	n/a	=	4.04	µg/L	EPA 525.2	0.083	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Simazine	n/a	=	81	%	EPA 525.2	-88	-88	53	152	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Simazine	n/a	=	84	%	EPA 525.2	-88	-88	53	152	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Simazine	n/a	=	11	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Simazine	n/a	=	4.1	µg/L	EPA 525.2	0.083	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Simazine	n/a	=	3.85	µg/L	EPA 525.2	0.083	0.1			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Simazine	n/a	=	77	%	EPA 525.2	-88	-88	53	152	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Simazine	n/a	=	77	%	EPA 525.2	-88	-88	53	152	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Simazine	n/a	=	6	%	EPA 525.2	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Simazine	n/a	=	4.96	µg/L	EPA 525.2	0.083	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Simazine	n/a	=	99	%	EPA 525.2	-88	-88	54	156	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Simazine	n/a	=	4.04	µg/L	EPA 525.2	0.083	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Simazine	n/a	=	81	%	EPA 525.2	-88	-88	54	156	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0678	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0827	µg/L	EPA 525.2	0.0031	0.01			GB
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	165	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	136	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	20	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.068	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	136	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0411	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0142	µg/L	EPA 525.2	0.0031	0.01			EUM
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	28	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	82	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	97	%	EPA 525.2	-88	-88	0	25	IL
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Terbacil	n/a	=	5.38	µg/L	EPA 525.2	0.55	2			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Terbacil	n/a	=	5.2	µg/L	EPA 525.2	0.55	2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Terbacil	n/a	=	104	%	EPA 525.2	-88	-88	56	159	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Terbacil	n/a	=	101	%	EPA 525.2	-88	-88	56	159	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Terbacil	n/a	=	3	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Terbacil	n/a	=	5.71	µg/L	EPA 525.2	0.55	2			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Terbacil	n/a	=	5.52	µg/L	EPA 525.2	0.55	2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Terbacil	n/a	=	110	%	EPA 525.2	-88	-88	56	159	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Terbacil	n/a	=	107	%	EPA 525.2	-88	-88	56	159	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Terbacil	n/a	=	3	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Terbacil	n/a	=	4.69	µg/L	EPA 525.2	0.55	2			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Terbacil	n/a	=	94	%	EPA 525.2	-88	-88	66	140	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Terbacil	n/a	=	5.29	µg/L	EPA 525.2	0.55	2			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Terbacil	n/a	=	106	%	EPA 525.2	-88	-88	66	140	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Thiobencarb	n/a	=	4.97	µg/L	EPA 525.2	0.11	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Thiobencarb	n/a	=	4.49	µg/L	EPA 525.2	0.11	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Thiobencarb	n/a	=	90	%	EPA 525.2	-88	-88	71	160	X
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Thiobencarb	n/a	=	93	%	EPA 525.2	-88	-88	71	160	X
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Thiobencarb	n/a	=	10	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Thiobencarb	n/a	=	4.87	µg/L	EPA 525.2	0.11	0.2			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Thiobencarb	n/a	=	4.32	µg/L	EPA 525.2	0.11	0.2			X
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Thiobencarb	n/a	=	86	%	EPA 525.2	-88	-88	71	160	X
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Thiobencarb	n/a	=	91	%	EPA 525.2	-88	-88	71	160	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Thiobencarb	n/a	=	12	%	EPA 525.2	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Thiobencarb	n/a	=	5.24	µg/L	EPA 525.2	0.11	0.2			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Thiobencarb	n/a	=	105	%	EPA 525.2	-88	-88	57	162	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Thiobencarb	n/a	=	4.29	µg/L	EPA 525.2	0.11	0.2			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Thiobencarb	n/a	=	86	%	EPA 525.2	-88	-88	57	162	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Tokuthion	n/a	=	0.083	µg/L	EPA 525.2	0.0078	0.01			GB
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Tokuthion	n/a	=	0.0787	µg/L	EPA 525.2	0.0078	0.01			GB
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Tokuthion	n/a	=	157	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Tokuthion	n/a	=	166	%	EPA 525.2	-88	-88	50	150	GB
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Tokuthion	n/a	=	5	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Tokuthion	n/a	=	0.0803	µg/L	EPA 525.2	0.0078	0.01			EUM
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Tokuthion	n/a	=	161	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Tokuthion	n/a	=	0.0558	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Tokuthion	n/a	=	0.0562	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Tokuthion	n/a	=	112	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Tokuthion	n/a	=	112	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Tokuthion	n/a	=	0.7	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-2	Lab	method blank	11/6/2010	Pesticide	Toxaphene	n/a	<	0.6	µg/L	EPA 608	0.6	2.5			X
2010/11-2	Lab	method blank	11/8/2010	Pesticide	Toxaphene	n/a	<	0.6	µg/L	EPA 608	0.6	2.5			X
2010/11-2	Lab	method blank	11/14/2010	Pesticide	Toxaphene	n/a	<	0.6	µg/L	EPA 608	0.6	2.5			X
2010/11-2	Lab	method blank	11/15/2010	Pesticide	Toxaphene	n/a	<	0.6	µg/L	EPA 608	0.6	2.5			X
2010/11-2	000NONPJ	matrix spike	12/1/2010	Pesticide	Trichloronate	n/a	=	0.0738	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	000NONPJ	matrix spike dup	12/1/2010	Pesticide	Trichloronate	n/a	=	0.074	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	000NONPJ	matrix spike dup, rec	12/1/2010	Pesticide	Trichloronate	n/a	=	148	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, rec	12/1/2010	Pesticide	Trichloronate	n/a	=	148	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	000NONPJ	matrix spike, RPD	12/1/2010	Pesticide	Trichloronate	n/a	=	0.3	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	LCS	12/1/2010	Pesticide	Trichloronate	n/a	=	0.0745	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	Lab	LCS, rec	12/1/2010	Pesticide	Trichloronate	n/a	=	149	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	Lab	method blank	12/1/2010	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	Lab	LCS	12/6/2010	Pesticide	Trichloronate	n/a	=	0.0541	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	Lab	LCS dup	12/6/2010	Pesticide	Trichloronate	n/a	=	0.0544	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	Lab	LCS dup, rec	12/6/2010	Pesticide	Trichloronate	n/a	=	109	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, rec	12/6/2010	Pesticide	Trichloronate	n/a	=	108	%	EPA 525.2	-88	-88	50	150	X
2010/11-2	Lab	LCS, RPD	12/6/2010	Pesticide	Trichloronate	n/a	=	0.6	%	EPA 525.2	-88	-88	0	25	X
2010/11-2	Lab	method blank	12/7/2010	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-2	000NONPJ	matrix spike	11/24/2010	Pesticide	Trithion	n/a	=	4.5	µg/L	EPA 525.2	0.01	0.1			GB
2010/11-2	000NONPJ	matrix spike dup	11/24/2010	Pesticide	Trithion	n/a	=	3.34	µg/L	EPA 525.2	0.01	0.1			GB
2010/11-2	000NONPJ	matrix spike dup, rec	11/24/2010	Pesticide	Trithion	n/a	=	67	%	EPA 525.2	-88	-88	86	144	GB
2010/11-2	000NONPJ	matrix spike, rec	11/24/2010	Pesticide	Trithion	n/a	=	84	%	EPA 525.2	-88	-88	86	144	GB
2010/11-2	000NONPJ	matrix spike, RPD	11/24/2010	Pesticide	Trithion	n/a	=	30	%	EPA 525.2	-88	-88	0	30	X
2010/11-2	000NONPJ	matrix spike	11/29/2010	Pesticide	Trithion	n/a	=	4.62	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	000NONPJ	matrix spike dup	11/29/2010	Pesticide	Trithion	n/a	=	3.31	µg/L	EPA 525.2	0.01	0.1			GB

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-2	000NONPJ	matrix spike dup, rec	11/29/2010	Pesticide	Trithion	n/a	=	66	%	EPA 525.2	-88	-88	86	144	GB
2010/11-2	000NONPJ	matrix spike, rec	11/29/2010	Pesticide	Trithion	n/a	=	86	%	EPA 525.2	-88	-88	86	144	X
2010/11-2	000NONPJ	matrix spike, RPD	11/29/2010	Pesticide	Trithion	n/a	=	33	%	EPA 525.2	-88	-88	0	30	IL
2010/11-2	Lab	LCS	11/24/2010	Pesticide	Trithion	n/a	=	4.32	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	Lab	LCS, rec	11/24/2010	Pesticide	Trithion	n/a	=	86	%	EPA 525.2	-88	-88	62	149	X
2010/11-2	Lab	method blank	11/24/2010	Pesticide	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	Lab	LCS	11/29/2010	Pesticide	Trithion	n/a	=	4.03	µg/L	EPA 525.2	0.01	0.1			X
2010/11-2	Lab	LCS, rec	11/29/2010	Pesticide	Trithion	n/a	=	81	%	EPA 525.2	-88	-88	62	149	X
2010/11-2	Lab	method blank	11/29/2010	Pesticide	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			X
2010/11-3	000NONPJ	matrix spike	11/30/2010	Anion	Chloride	n/a	=	457	mg/L	EPA 300.0	5	25			D
2010/11-3	000NONPJ	matrix spike	11/30/2010	Anion	Chloride	n/a	=	528	mg/L	EPA 300.0	5	25			D
2010/11-3	000NONPJ	matrix spike dup	11/30/2010	Anion	Chloride	n/a	=	463	mg/L	EPA 300.0	5	25			D
2010/11-3	000NONPJ	matrix spike dup	11/30/2010	Anion	Chloride	n/a	=	529	mg/L	EPA 300.0	5	25			D
2010/11-3	000NONPJ	matrix spike dup, rec	11/30/2010	Anion	Chloride	n/a	=	94	%	EPA 300.0	-88	-88	72	118	D
2010/11-3	000NONPJ	matrix spike dup, rec	11/30/2010	Anion	Chloride	n/a	=	90	%	EPA 300.0	-88	-88	72	118	D
2010/11-3	000NONPJ	matrix spike, rec	11/30/2010	Anion	Chloride	n/a	=	91	%	EPA 300.0	-88	-88	72	118	D
2010/11-3	000NONPJ	matrix spike, rec	11/30/2010	Anion	Chloride	n/a	=	89	%	EPA 300.0	-88	-88	72	118	D
2010/11-3	000NONPJ	matrix spike, RPD	11/30/2010	Anion	Chloride	n/a	=	0.3	%	EPA 300.0	-88	-88	0	20	D
2010/11-3	000NONPJ	matrix spike, RPD	11/30/2010	Anion	Chloride	n/a	=	1	%	EPA 300.0	-88	-88	0	20	D
2010/11-3	Lab	LCS	11/30/2010	Anion	Chloride	n/a	=	3.89	mg/L	EPA 300.0	0.1	0.5			
2010/11-3	Lab	LCS, rec	11/30/2010	Anion	Chloride	n/a	=	97	%	EPA 300.0	-88	-88	90	110	
2010/11-3	Lab	method blank	11/30/2010	Anion	Chloride	n/a	<	0.1	mg/L	EPA 300.0	0.1	0.5			
2010/11-3	000NONPJ	matrix spike	11/30/2010	Anion	Fluoride	n/a	=	102	mg/L	EPA 300.0	1	5			D
2010/11-3	000NONPJ	matrix spike	11/30/2010	Anion	Fluoride	n/a	=	102	mg/L	EPA 300.0	1	5			D
2010/11-3	000NONPJ	matrix spike dup	11/30/2010	Anion	Fluoride	n/a	=	102	mg/L	EPA 300.0	1	5			D
2010/11-3	000NONPJ	matrix spike dup	11/30/2010	Anion	Fluoride	n/a	=	102	mg/L	EPA 300.0	1	5			D
2010/11-3	000NONPJ	matrix spike dup, rec	11/30/2010	Anion	Fluoride	n/a	=	102	%	EPA 300.0	-88	-88	79	109	D
2010/11-3	000NONPJ	matrix spike dup, rec	11/30/2010	Anion	Fluoride	n/a	=	102	%	EPA 300.0	-88	-88	79	109	D
2010/11-3	000NONPJ	matrix spike, rec	11/30/2010	Anion	Fluoride	n/a	=	101	%	EPA 300.0	-88	-88	79	109	D
2010/11-3	000NONPJ	matrix spike, rec	11/30/2010	Anion	Fluoride	n/a	=	101	%	EPA 300.0	-88	-88	79	109	D
2010/11-3	000NONPJ	matrix spike, RPD	11/30/2010	Anion	Fluoride	n/a	=	0.1	%	EPA 300.0	-88	-88	0	20	D
2010/11-3	000NONPJ	matrix spike, RPD	11/30/2010	Anion	Fluoride	n/a	=	0.4	%	EPA 300.0	-88	-88	0	20	D
2010/11-3	Lab	LCS	11/30/2010	Anion	Fluoride	n/a	=	2.06	mg/L	EPA 300.0	0.02	0.1			
2010/11-3	Lab	LCS, rec	11/30/2010	Anion	Fluoride	n/a	=	103	%	EPA 300.0	-88	-88	90	110	
2010/11-3	Lab	method blank	11/30/2010	Anion	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Anion	Perchlorate	n/a	=	11.8	µg/L	EPA 314.0	0.82	2			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Anion	Perchlorate	n/a	=	12.4	µg/L	EPA 314.0	0.82	2			
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Anion	Perchlorate	n/a	=	111	%	EPA 314.0	-88	-88	80	120	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Anion	Perchlorate	n/a	=	105	%	EPA 314.0	-88	-88	80	120	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Anion	Perchlorate	n/a	=	5	%	EPA 314.0	-88	-88	0	15	
2010/11-3	Lab	LCS	12/2/2010	Anion	Perchlorate	n/a	=	10.2	µg/L	EPA 314.0	0.82	2			
2010/11-3	Lab	LCS, rec	12/2/2010	Anion	Perchlorate	n/a	=	102	%	EPA 314.0	-88	-88	85	115	
2010/11-3	Lab	method blank	12/2/2010	Anion	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2			
2010/11-3	MO-MEI	field duplicate	11/21/2010	Bacteriological	E. Coli	n/a	=	8664	MPN/100 mL	MMO-MUG	10	10	-88	-88	
2010/11-3	MO-MEI	field duplicate	11/22/2010	Bacteriological	Fecal Coliform	n/a	=	5000	MPN/100 mL	SM 9221 E	2	2	-88	-88	
2010/11-3	MO-MEI	field duplicate	11/21/2010	Bacteriological	Total Coliform	n/a	=	204600	MPN/100 mL	MMO-MUG	1000	1000	-88	-88	
2010/11-3	000NONPJ	matrix spike	11/29/2010	Cation	Calcium	Total	=	412	mg/L	EPA 200.7	0.016	0.1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	000NONPJ	matrix spike dup	11/29/2010	Cation	Calcium	Total	=	406	mg/L	EPA 200.7	0.016	0.1			GB
2010/11-3	000NONPJ	matrix spike dup, rec	11/29/2010	Cation	Calcium	Total	=	67	%	EPA 200.7	-88	-88	70	130	GB
2010/11-3	000NONPJ	matrix spike, rec	11/29/2010	Cation	Calcium	Total	=	80	%	EPA 200.7	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	11/29/2010	Cation	Calcium	Total	=	2	%	EPA 200.7	-88	-88	0	30	
2010/11-3	Lab	LCS	11/29/2010	Cation	Calcium	Total	=	46.8	mg/L	EPA 200.7	0.016	0.1			
2010/11-3	Lab	LCS, rec	11/29/2010	Cation	Calcium	Total	=	93	%	EPA 200.7	-88	-88	85	115	
2010/11-3	Lab	method blank	11/29/2010	Cation	Calcium	Total	<	0.016	mg/L	EPA 200.7	0.016	0.1			
2010/11-3	000NONPJ	matrix spike	11/29/2010	Cation	Magnesium	Total	=	184	mg/L	EPA 200.7	0.012	0.1			
2010/11-3	000NONPJ	matrix spike dup	11/29/2010	Cation	Magnesium	Total	=	182	mg/L	EPA 200.7	0.012	0.1			
2010/11-3	000NONPJ	matrix spike dup, rec	11/29/2010	Cation	Magnesium	Total	=	89	%	EPA 200.7	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	11/29/2010	Cation	Magnesium	Total	=	95	%	EPA 200.7	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	11/29/2010	Cation	Magnesium	Total	=	1	%	EPA 200.7	-88	-88	0	30	
2010/11-3	Lab	LCS	11/29/2010	Cation	Magnesium	Total	=	47.9	mg/L	EPA 200.7	0.012	0.1			
2010/11-3	Lab	LCS, rec	11/29/2010	Cation	Magnesium	Total	=	95	%	EPA 200.7	-88	-88	85	115	
2010/11-3	Lab	method blank	11/29/2010	Cation	Magnesium	Total	<	0.012	mg/L	EPA 200.7	0.012	0.1			
2010/11-3	000NONPJ	lab duplicate	12/2/2010	Conventional	Alkalinity as CaCO3	n/a	=	63.3	mg/L	SM 2320 B	1.2	2		15	
2010/11-3	000NONPJ	lab duplicate	12/2/2010	Conventional	Alkalinity as CaCO3	n/a	=	20.1	mg/L	SM 2320 B	1.2	2		15	
2010/11-3	Lab	LCS	12/2/2010	Conventional	Alkalinity as CaCO3	n/a	=	251	mg/L	SM 2320 B	1.2	2			
2010/11-3	Lab	LCS	12/2/2010	Conventional	Alkalinity as CaCO3	n/a	=	255	mg/L	SM 2320 B	1.2	2			
2010/11-3	Lab	LCS, rec	12/2/2010	Conventional	Alkalinity as CaCO3	n/a	=	102	%	SM 2320 B	-88	-88	94	108	
2010/11-3	Lab	LCS, rec	12/2/2010	Conventional	Alkalinity as CaCO3	n/a	=	101	%	SM 2320 B	-88	-88	94	108	
2010/11-3	Lab	method blank	12/2/2010	Conventional	Alkalinity as CaCO3	n/a	<	1.2	mg/L	SM 2320 B	1.2	2			
2010/11-3	Lab	method blank	12/2/2010	Conventional	Alkalinity as CaCO3	n/a	<	1.2	mg/L	SM 2320 B	1.2	2			
2010/11-3	Lab	LCS	11/27/2010	Conventional	BOD	n/a	=	188	mg/L	SM 5210 B	0.1	2			
2010/11-3	Lab	LCS, rec	11/27/2010	Conventional	BOD	n/a	=	95	%	SM 5210 B	-88	-88	85	115	
2010/11-3	000NONPJ	lab duplicate	11/24/2010	Conventional	COD	n/a	=	18600	mg/L	EPA 410.4	18	50			D
2010/11-3	000NONPJ	matrix spike	11/24/2010	Conventional	COD	n/a	=	2720	mg/L	EPA 410.4	3.7	10			D
2010/11-3	000NONPJ	matrix spike dup	11/24/2010	Conventional	COD	n/a	=	2720	mg/L	EPA 410.4	3.7	10			D
2010/11-3	000NONPJ	matrix spike dup, rec	11/24/2010	Conventional	COD	n/a	=	94	%	EPA 410.4	-88	-88	90	110	D
2010/11-3	000NONPJ	matrix spike, rec	11/24/2010	Conventional	COD	n/a	=	94	%	EPA 410.4	-88	-88	90	110	D
2010/11-3	000NONPJ	matrix spike, RPD	11/24/2010	Conventional	COD	n/a	=	0.007	%	EPA 410.4	-88	-88	0	15	D
2010/11-3	Lab	LCS	11/24/2010	Conventional	COD	n/a	=	959	mg/L	EPA 410.4	1.8	5			
2010/11-3	Lab	LCS, rec	11/24/2010	Conventional	COD	n/a	=	96	%	EPA 410.4	-88	-88	90	110	
2010/11-3	Lab	method blank	11/24/2010	Conventional	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5			
2010/11-3	Lab	LCS	11/30/2010	Conventional	Cyanide	Total	=	0.0539	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-3	Lab	LCS, rec	11/30/2010	Conventional	Cyanide	Total	=	108	%	EPA 335.4	-88	-88	90	110	X
2010/11-3	Lab	method blank	11/30/2010	Conventional	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-3	MO-MEI	field duplicate	11/30/2010	Conventional	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-3	MO-OJA	matrix spike	11/30/2010	Conventional	Cyanide	Total	=	0.198	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Conventional	Cyanide	Total	=	0.215	mg/L	EPA 335.4	0.0027	0.005			X
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Conventional	Cyanide	Total	=	108	%	EPA 335.4	-88	-88	90	110	X
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Conventional	Cyanide	Total	=	99	%	EPA 335.4	-88	-88	90	110	X
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Conventional	Cyanide	Total	=	8	%	EPA 335.4	-88	-88	0	20	X
2010/11-3	Lab	LCS	11/22/2010	Conventional	MBAS	n/a	=	0.184	mg/L	SM 5540 C	0.019	0.05			
2010/11-3	Lab	LCS, rec	11/22/2010	Conventional	MBAS	n/a	=	92	%	SM 5540 C	-88	-88	79	113	
2010/11-3	Lab	method blank	11/22/2010	Conventional	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05			
2010/11-3	MO-OJA	matrix spike	11/22/2010	Conventional	MBAS	n/a	=	0.534	mg/L	SM 5540 C	0.038	0.1			D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	MO-OJA	matrix spike dup	11/22/2010	Conventional	MBAS	n/a	=	0.539	mg/L	SM 5540 C	0.038	0.1			D
2010/11-3	MO-OJA	matrix spike dup, rec	11/22/2010	Conventional	MBAS	n/a	=	106	%	SM 5540 C	-88	-88	77	118	D
2010/11-3	MO-OJA	matrix spike, rec	11/22/2010	Conventional	MBAS	n/a	=	105	%	SM 5540 C	-88	-88	77	118	D
2010/11-3	MO-OJA	matrix spike, RPD	11/22/2010	Conventional	MBAS	n/a	=	1	%	SM 5540 C	-88	-88	0	20	D
2010/11-3	000NONPJ	matrix spike	12/6/2010	Conventional	Phenolics	n/a	=	0.112	mg/L	EPA 420.4	0.0048	0.03			D,GB
2010/11-3	000NONPJ	matrix spike dup	12/6/2010	Conventional	Phenolics	n/a	=	0.112	mg/L	EPA 420.4	0.0048	0.03			D,GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/6/2010	Conventional	Phenolics	n/a	=	54	%	EPA 420.4	-88	-88	90	110	D,GB
2010/11-3	000NONPJ	matrix spike, rec	12/6/2010	Conventional	Phenolics	n/a	=	54	%	EPA 420.4	-88	-88	90	110	D,GB
2010/11-3	000NONPJ	matrix spike, RPD	12/6/2010	Conventional	Phenolics	n/a	=	0.6	%	EPA 420.4	-88	-88	0	20	D
2010/11-3	Lab	LCS	12/6/2010	Conventional	Phenolics	n/a	=	0.1	mg/L	EPA 420.4	0.0016	0.01			
2010/11-3	Lab	LCS, rec	12/6/2010	Conventional	Phenolics	n/a	=	100	%	EPA 420.4	-88	-88	90	110	
2010/11-3	Lab	method blank	12/6/2010	Conventional	Phenolics	n/a	<	0.0016	mg/L	EPA 420.4	0.0016	0.01			
2010/11-3	000NONPJ	lab duplicate	11/23/2010	Conventional	Specific Conductance	n/a	=	92.8	µmhos/cm	SM 2510 B	0.23	2		4.28	
2010/11-3	Lab	LCS	11/23/2010	Conventional	Specific Conductance	n/a	=	205	µmhos/cm	SM 2510 B	0.23	2			
2010/11-3	Lab	LCS, rec	11/23/2010	Conventional	Specific Conductance	n/a	=	102	%	SM 2510 B	-88	-88	95	105	
2010/11-3	Lab	method blank	11/23/2010	Conventional	Specific Conductance	n/a	DNQ	0.39	µmhos/cm	SM 2510 B	0.23	2			IP
2010/11-3	000NONPJ	lab duplicate	11/23/2010	Conventional	Total Dissolved Solids	n/a	=	978	mg/L	SM 2540 C	4	10		10	
2010/11-3	000NONPJ	lab duplicate	11/23/2010	Conventional	Total Dissolved Solids	n/a	=	175	mg/L	SM 2540 C	4	10		10	
2010/11-3	Lab	LCS	11/23/2010	Conventional	Total Dissolved Solids	n/a	=	808	mg/L	SM 2540 C	4	10			
2010/11-3	Lab	LCS, rec	11/23/2010	Conventional	Total Dissolved Solids	n/a	=	98	%	SM 2540 C	-88	-88	91	104	
2010/11-3	Lab	method blank	11/23/2010	Conventional	Total Dissolved Solids	n/a	<	4	mg/L	SM 2540 C	4	10			
2010/11-3	000NONPJ	matrix spike	12/1/2010	Conventional	Total Organic Carbon	n/a	=	5.45	mg/L	SM 5310 C	0.032	0.3			
2010/11-3	000NONPJ	matrix spike dup	12/1/2010	Conventional	Total Organic Carbon	n/a	=	5.39	mg/L	SM 5310 C	0.032	0.3			
2010/11-3	000NONPJ	matrix spike dup, rec	12/1/2010	Conventional	Total Organic Carbon	n/a	=	98	%	SM 5310 C	-88	-88	84	107	
2010/11-3	000NONPJ	matrix spike, rec	12/1/2010	Conventional	Total Organic Carbon	n/a	=	100	%	SM 5310 C	-88	-88	84	107	
2010/11-3	000NONPJ	matrix spike, RPD	12/1/2010	Conventional	Total Organic Carbon	n/a	=	1	%	SM 5310 C	-88	-88	0	20	
2010/11-3	Lab	LCS	12/1/2010	Conventional	Total Organic Carbon	n/a	=	4.84	mg/L	SM 5310 C	0.032	0.3			
2010/11-3	Lab	LCS, rec	12/1/2010	Conventional	Total Organic Carbon	n/a	=	97	%	SM 5310 C	-88	-88	90	110	
2010/11-3	Lab	method blank	12/1/2010	Conventional	Total Organic Carbon	n/a	<	0.032	mg/L	SM 5310 C	0.032	0.3			
2010/11-3	000NONPJ	lab duplicate	11/22/2010	Conventional	Total Suspended Solids	n/a	=	57	mg/L	SM 2540 D	5	5		20	
2010/11-3	000NONPJ	lab duplicate	11/22/2010	Conventional	Total Suspended Solids	n/a	=	21	mg/L	SM 2540 D	5	5		20	
2010/11-3	Lab	method blank	11/22/2010	Conventional	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5			
2010/11-3	000NONPJ	lab duplicate	11/22/2010	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1		10	
2010/11-3	000NONPJ	lab duplicate	11/22/2010	Conventional	Turbidity	n/a	=	27.3	NTU	EPA 180.1	0.024	0.1		10	
2010/11-3	Lab	LCS	11/22/2010	Conventional	Turbidity	n/a	=	6.38	NTU	EPA 180.1	0.024	0.1			
2010/11-3	Lab	LCS	11/22/2010	Conventional	Turbidity	n/a	=	6.62	NTU	EPA 180.1	0.024	0.1			
2010/11-3	Lab	LCS, rec	11/22/2010	Conventional	Turbidity	n/a	=	93	%	EPA 180.1	-88	-88	90	110	
2010/11-3	Lab	LCS, rec	11/22/2010	Conventional	Turbidity	n/a	=	97	%	EPA 180.1	-88	-88	90	110	
2010/11-3	Lab	method blank	11/22/2010	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1			
2010/11-3	Lab	method blank	11/22/2010	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1			
2010/11-3	000NONPJ	lab duplicate	11/24/2010	Conventional	Volatile Suspended Solids	n/a	=	860	mg/L	EPA 160.4	3.1	5		15	
2010/11-3	Lab	method blank	11/22/2010	Conventional	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5			
2010/11-3	Lab	method blank	11/24/2010	Conventional	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5			
2010/11-3	Lab	LCS	12/6/2010	Hydrocarbon	Oil and Grease	n/a	=	17	mg/L	EPA 1664A	2	5			X
2010/11-3	Lab	LCS	12/6/2010	Hydrocarbon	Oil and Grease	n/a	DNQ	4.3	mg/L	EPA 1664A	2	5			X
2010/11-3	Lab	LCS dup	12/6/2010	Hydrocarbon	Oil and Grease	n/a	=	16.3	mg/L	EPA 1664A	2	5			X
2010/11-3	Lab	LCS dup, rec	12/6/2010	Hydrocarbon	Oil and Grease	n/a	=	82	%	EPA 1664A	-88	-88	78	114	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS, rec	12/6/2010	Hydrocarbon	Oil and Grease	n/a	=	85	%	EPA 1664A	-88	-88	78	114	X
2010/11-3	Lab	LCS, rec	12/6/2010	Hydrocarbon	Oil and Grease	n/a	=	86	%	EPA 1664A	-88	-88	78	114	X
2010/11-3	Lab	LCS, RPD	12/6/2010	Hydrocarbon	Oil and Grease	n/a	=	4	%	EPA 1664A	-88	-88	0	18	X
2010/11-3	Lab	method blank	12/6/2010	Hydrocarbon	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5			X
2010/11-3	MO-MEI	field duplicate	12/6/2010	Hydrocarbon	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5			X
2010/11-3	Lab	method blank	12/6/2010	Hydrocarbon	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5			X
2010/11-3	MO-MEI	field duplicate	12/6/2010	Hydrocarbon	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5			X
2010/11-3	Lab	LCS	11/30/2010	Metal	Aluminum	Dissolved	=	47.4	µg/L	EPA 200.8	0.19	5			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Aluminum	Dissolved	=	95	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Aluminum	Dissolved	DNQ	1.74	µg/L	EPA 200.8	0.19	5			IP
2010/11-3	Lab	LCS	11/30/2010	Metal	Aluminum	Total	=	47.4	µg/L	EPA 200.8	0.19	5			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Aluminum	Total	=	95	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Aluminum	Total	DNQ	1.74	µg/L	EPA 200.8	0.19	5			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Aluminum	Total	=	2150	µg/L	EPA 200.8	0.19	5			R
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Aluminum	Total	=	2120	µg/L	EPA 200.8	0.19	5			R
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Aluminum	Total	=	-226	%	EPA 200.8	-88	-88	70	130	R
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Aluminum	Total	=	-156	%	EPA 200.8	-88	-88	70	130	R
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Aluminum	Total	=	2	%	EPA 200.8	-88	-88	0	30	R
2010/11-3	Lab	LCS	11/30/2010	Metal	Antimony	Dissolved	=	45.2	µg/L	EPA 200.8	0.008	0.5			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Antimony	Dissolved	=	90	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Antimony	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Antimony	Dissolved	=	44.5	µg/L	EPA 200.8	0.008	0.5			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Antimony	Dissolved	=	44.6	µg/L	EPA 200.8	0.008	0.5			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Antimony	Dissolved	=	89	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Antimony	Dissolved	=	89	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Antimony	Dissolved	=	0.2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Antimony	Total	=	45.2	µg/L	EPA 200.8	0.008	0.5			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Antimony	Total	=	90	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Antimony	Total	DNQ	0.07	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Antimony	Total	=	44.5	µg/L	EPA 200.8	0.008	0.5			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Antimony	Total	=	44.6	µg/L	EPA 200.8	0.008	0.5			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Antimony	Total	=	88	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Antimony	Total	=	88	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Antimony	Total	=	0.2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Arsenic	Dissolved	=	44	µg/L	EPA 200.8	0.014	0.4			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Arsenic	Dissolved	=	88	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Arsenic	Dissolved	DNQ	0.37	µg/L	EPA 200.8	0.014	0.4			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Arsenic	Dissolved	=	46.6	µg/L	EPA 200.8	0.014	0.4			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Arsenic	Dissolved	=	47.4	µg/L	EPA 200.8	0.014	0.4			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Arsenic	Dissolved	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Arsenic	Dissolved	=	91	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Arsenic	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Arsenic	Total	=	44	µg/L	EPA 200.8	0.014	0.4			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Arsenic	Total	=	88	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Arsenic	Total	DNQ	0.37	µg/L	EPA 200.8	0.014	0.4			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Arsenic	Total	=	46.6	µg/L	EPA 200.8	0.014	0.4			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Arsenic	Total	=	47.4	µg/L	EPA 200.8	0.014	0.4			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Arsenic	Total	=	91	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Arsenic	Total	=	90	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Arsenic	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Beryllium	Dissolved	=	48.7	µg/L	EPA 200.8	0.022	0.1			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Beryllium	Dissolved	=	97	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1			
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Beryllium	Dissolved	=	50.3	µg/L	EPA 200.8	0.022	0.1			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Beryllium	Dissolved	=	51.3	µg/L	EPA 200.8	0.022	0.1			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Beryllium	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Beryllium	Dissolved	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Beryllium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Beryllium	Total	=	48.7	µg/L	EPA 200.8	0.022	0.1			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Beryllium	Total	=	97	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1			
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Beryllium	Total	=	50.3	µg/L	EPA 200.8	0.022	0.1			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Beryllium	Total	=	51.3	µg/L	EPA 200.8	0.022	0.1			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Beryllium	Total	=	102	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Beryllium	Total	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Beryllium	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Cadmium	Dissolved	=	47.3	µg/L	EPA 200.8	0.013	0.1			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Cadmium	Dissolved	=	95	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Cadmium	Dissolved	<	0.013	µg/L	EPA 200.8	0.013	0.1			
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Cadmium	Dissolved	=	47.3	µg/L	EPA 200.8	0.013	0.1			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Cadmium	Dissolved	=	47.4	µg/L	EPA 200.8	0.013	0.1			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Cadmium	Dissolved	=	95	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Cadmium	Dissolved	=	95	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Cadmium	Dissolved	=	0.2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Cadmium	Total	=	47.3	µg/L	EPA 200.8	0.013	0.1			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Cadmium	Total	=	95	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Cadmium	Total	<	0.013	µg/L	EPA 200.8	0.013	0.1			
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Cadmium	Total	=	47.3	µg/L	EPA 200.8	0.013	0.1			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Cadmium	Total	=	47.4	µg/L	EPA 200.8	0.013	0.1			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Cadmium	Total	=	95	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Cadmium	Total	=	94	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Cadmium	Total	=	0.2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Chromium	Dissolved	=	49.6	µg/L	EPA 200.8	0.012	0.2			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Chromium	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Chromium	Dissolved	DNQ	0.17	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Chromium	Dissolved	=	52.3	µg/L	EPA 200.8	0.012	0.2			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Chromium	Dissolved	=	53.1	µg/L	EPA 200.8	0.012	0.2			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Chromium	Dissolved	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Chromium	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Chromium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Chromium	Total	=	49.6	µg/L	EPA 200.8	0.012	0.2			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Chromium	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Chromium	Total	DNQ	0.17	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Chromium	Total	=	52.3	µg/L	EPA 200.8	0.012	0.2			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Chromium	Total	=	53.1	µg/L	EPA 200.8	0.012	0.2			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Chromium	Total	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Chromium	Total	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Chromium	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/24/2010	Metal	Chromium VI	n/a	=	5.2	µg/L	EPA 218.6	0.0059	0.3			
2010/11-3	Lab	LCS, rec	11/24/2010	Metal	Chromium VI	n/a	=	104	%	EPA 218.6	-88	-88	90	110	
2010/11-3	Lab	method blank	11/24/2010	Metal	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3			
2010/11-3	MO-OJA	matrix spike	11/24/2010	Metal	Chromium VI	n/a	=	5.3	µg/L	EPA 218.6	0.0059	0.3			
2010/11-3	MO-OJA	matrix spike dup	11/24/2010	Metal	Chromium VI	n/a	=	5.33	µg/L	EPA 218.6	0.0059	0.3			
2010/11-3	MO-OJA	matrix spike dup, rec	11/24/2010	Metal	Chromium VI	n/a	=	105	%	EPA 218.6	-88	-88	88	112	
2010/11-3	MO-OJA	matrix spike, rec	11/24/2010	Metal	Chromium VI	n/a	=	104	%	EPA 218.6	-88	-88	88	112	
2010/11-3	MO-OJA	matrix spike, RPD	11/24/2010	Metal	Chromium VI	n/a	=	0.5	%	EPA 218.6	-88	-88	0	10	
2010/11-3	Lab	LCS	12/1/2010	Metal	Copper	Dissolved	=	50.8	µg/L	EPA 200.8	0.022	0.5			
2010/11-3	Lab	LCS, rec	12/1/2010	Metal	Copper	Dissolved	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	12/1/2010	Metal	Copper	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.5			
2010/11-3	MO-OJA	matrix spike	12/1/2010	Metal	Copper	Dissolved	=	51.2	µg/L	EPA 200.8	0.022	0.5			
2010/11-3	MO-OJA	matrix spike dup	12/1/2010	Metal	Copper	Dissolved	=	51.2	µg/L	EPA 200.8	0.022	0.5			
2010/11-3	MO-OJA	matrix spike dup, rec	12/1/2010	Metal	Copper	Dissolved	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	12/1/2010	Metal	Copper	Dissolved	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	12/1/2010	Metal	Copper	Dissolved	=	0.06	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Copper	Total	=	51.4	µg/L	EPA 200.8	0.022	0.5			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Copper	Total	=	103	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Copper	Total	=	0.52	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Copper	Total	=	61.6	µg/L	EPA 200.8	0.022	0.5			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Copper	Total	=	62.2	µg/L	EPA 200.8	0.022	0.5			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Copper	Total	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Copper	Total	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Copper	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Iron	Dissolved	=	1100	µg/L	EPA 200.8	0.6	20			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Iron	Dissolved	=	105	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Iron	Dissolved	DNQ	3.98	µg/L	EPA 200.8	0.6	20			IP
2010/11-3	Lab	LCS	11/30/2010	Metal	Iron	Total	=	1100	µg/L	EPA 200.8	0.6	20			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Iron	Total	=	105	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Iron	Total	DNQ	3.98	µg/L	EPA 200.8	0.6	20			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Iron	Total	=	3670	µg/L	EPA 200.8	0.6	20			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Iron	Total	=	3670	µg/L	EPA 200.8	0.6	20			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Iron	Total	=	81	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Iron	Total	=	81	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Iron	Total	=	0.05	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Lead	Dissolved	=	47.5	µg/L	EPA 200.8	0.017	0.2			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Lead	Dissolved	=	95	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2			
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Lead	Dissolved	=	53.3	µg/L	EPA 200.8	0.017	0.2			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Lead	Dissolved	=	53.6	µg/L	EPA 200.8	0.017	0.2			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Lead	Dissolved	=	107	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Lead	Dissolved	=	106	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Lead	Dissolved	=	0.5	%	EPA 200.8	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS	11/30/2010	Metal	Lead	Total	=	47.5	µg/L	EPA 200.8	0.017	0.2			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Lead	Total	=	95	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Lead	Total	<	0.017	µg/L	EPA 200.8	0.017	0.2			
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Lead	Total	=	53.3	µg/L	EPA 200.8	0.017	0.2			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Lead	Total	=	53.6	µg/L	EPA 200.8	0.017	0.2			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Lead	Total	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Lead	Total	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Lead	Total	=	0.5	%	EPA 200.8	-88	-88	0	30	
2010/11-3	000NONPJ	matrix spike	11/24/2010	Metal	Mercury	Dissolved	=	1000	ng/L	EPA 245.1	3.9	50			
2010/11-3	000NONPJ	matrix spike	11/24/2010	Metal	Mercury	Dissolved	=	1030	ng/L	EPA 245.1	3.9	50			
2010/11-3	000NONPJ	matrix spike dup	11/24/2010	Metal	Mercury	Dissolved	=	964	ng/L	EPA 245.1	3.9	50			
2010/11-3	000NONPJ	matrix spike dup	11/24/2010	Metal	Mercury	Dissolved	=	988	ng/L	EPA 245.1	3.9	50			
2010/11-3	000NONPJ	matrix spike dup, rec	11/24/2010	Metal	Mercury	Dissolved	=	96	%	EPA 245.1	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike dup, rec	11/24/2010	Metal	Mercury	Dissolved	=	99	%	EPA 245.1	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	11/24/2010	Metal	Mercury	Dissolved	=	103	%	EPA 245.1	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	11/24/2010	Metal	Mercury	Dissolved	=	100	%	EPA 245.1	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	11/24/2010	Metal	Mercury	Dissolved	=	1	%	EPA 245.1	-88	-88	0	20	
2010/11-3	000NONPJ	matrix spike, RPD	11/24/2010	Metal	Mercury	Dissolved	=	7	%	EPA 245.1	-88	-88	0	20	
2010/11-3	Lab	LCS	11/24/2010	Metal	Mercury	Dissolved	=	1010	ng/L	EPA 245.1	3.9	50			
2010/11-3	Lab	LCS, rec	11/24/2010	Metal	Mercury	Dissolved	=	101	%	EPA 245.1	-88	-88	85	115	
2010/11-3	Lab	method blank	11/24/2010	Metal	Mercury	Dissolved	DNQ	11	ng/L	EPA 245.1	3.9	50			IP
2010/11-3	000NONPJ	matrix spike	11/24/2010	Metal	Mercury	Total	=	1000	ng/L	EPA 245.1	3.9	50			X
2010/11-3	000NONPJ	matrix spike	11/24/2010	Metal	Mercury	Total	=	1030	ng/L	EPA 245.1	3.9	50			X
2010/11-3	000NONPJ	matrix spike dup	11/24/2010	Metal	Mercury	Total	=	988	ng/L	EPA 245.1	3.9	50			X
2010/11-3	000NONPJ	matrix spike dup	11/24/2010	Metal	Mercury	Total	=	964	ng/L	EPA 245.1	3.9	50			X
2010/11-3	000NONPJ	matrix spike dup, rec	11/24/2010	Metal	Mercury	Total	=	95	%	EPA 245.1	-88	-88	70	130	X
2010/11-3	000NONPJ	matrix spike dup, rec	11/24/2010	Metal	Mercury	Total	=	98	%	EPA 245.1	-88	-88	70	130	X
2010/11-3	000NONPJ	matrix spike, rec	11/24/2010	Metal	Mercury	Total	=	102	%	EPA 245.1	-88	-88	70	130	X
2010/11-3	000NONPJ	matrix spike, rec	11/24/2010	Metal	Mercury	Total	=	99	%	EPA 245.1	-88	-88	70	130	X
2010/11-3	000NONPJ	matrix spike, RPD	11/24/2010	Metal	Mercury	Total	=	1	%	EPA 245.1	-88	-88	0	20	X
2010/11-3	000NONPJ	matrix spike, RPD	11/24/2010	Metal	Mercury	Total	=	7	%	EPA 245.1	-88	-88	0	20	X
2010/11-3	Lab	LCS	11/24/2010	Metal	Mercury	Total	=	1010	ng/L	EPA 245.1	3.9	50			X
2010/11-3	Lab	LCS, rec	11/24/2010	Metal	Mercury	Total	=	101	%	EPA 245.1	-88	-88	85	115	X
2010/11-3	Lab	method blank	11/24/2010	Metal	Mercury	Total	DNQ	11	ng/L	EPA 245.1	3.9	50			IP
2010/11-3	Lab	LCS	11/30/2010	Metal	Nickel	Dissolved	=	50.6	µg/L	EPA 200.8	0.011	0.8			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Nickel	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Nickel	Dissolved	DNQ	0.23	µg/L	EPA 200.8	0.011	0.8			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Nickel	Dissolved	=	52.6	µg/L	EPA 200.8	0.011	0.8			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Nickel	Dissolved	=	53.6	µg/L	EPA 200.8	0.011	0.8			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Nickel	Dissolved	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Nickel	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Nickel	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Nickel	Total	=	50.6	µg/L	EPA 200.8	0.011	0.8			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Nickel	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Nickel	Total	DNQ	0.23	µg/L	EPA 200.8	0.011	0.8			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Nickel	Total	=	52.6	µg/L	EPA 200.8	0.011	0.8			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Nickel	Total	=	53.6	µg/L	EPA 200.8	0.011	0.8			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Nickel	Total	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Nickel	Total	=	95	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Nickel	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Selenium	Dissolved	=	44.5	µg/L	EPA 200.8	0.017	0.4			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Selenium	Dissolved	=	89	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Selenium	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.017	0.4			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Selenium	Dissolved	=	45.5	µg/L	EPA 200.8	0.017	0.4			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Selenium	Dissolved	=	46.3	µg/L	EPA 200.8	0.017	0.4			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Selenium	Dissolved	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Selenium	Dissolved	=	90	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Selenium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Selenium	Total	=	44.5	µg/L	EPA 200.8	0.017	0.4			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Selenium	Total	=	89	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Selenium	Total	DNQ	0.06	µg/L	EPA 200.8	0.017	0.4			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Selenium	Total	=	45.5	µg/L	EPA 200.8	0.017	0.4			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Selenium	Total	=	46.3	µg/L	EPA 200.8	0.017	0.4			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Selenium	Total	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Selenium	Total	=	90	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Selenium	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Silver	Dissolved	=	47	µg/L	EPA 200.8	0.008	0.2			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Silver	Dissolved	=	94	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Silver	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Silver	Dissolved	=	46.2	µg/L	EPA 200.8	0.008	0.2			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Silver	Dissolved	=	46.2	µg/L	EPA 200.8	0.008	0.2			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Silver	Dissolved	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Silver	Dissolved	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Silver	Dissolved	=	0.02	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Silver	Total	=	47	µg/L	EPA 200.8	0.008	0.2			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Silver	Total	=	94	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Silver	Total	DNQ	0.02	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Silver	Total	=	46.2	µg/L	EPA 200.8	0.008	0.2			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Silver	Total	=	46.2	µg/L	EPA 200.8	0.008	0.2			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Silver	Total	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Silver	Total	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Silver	Total	=	0.02	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Metal	Thallium	Dissolved	=	48.6	µg/L	EPA 200.8	0.02	0.2			
2010/11-3	Lab	LCS, rec	12/1/2010	Metal	Thallium	Dissolved	=	97	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	12/1/2010	Metal	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2			
2010/11-3	MO-OJA	matrix spike	12/1/2010	Metal	Thallium	Dissolved	=	55.5	µg/L	EPA 200.8	0.02	0.2			
2010/11-3	MO-OJA	matrix spike dup	12/1/2010	Metal	Thallium	Dissolved	=	54.5	µg/L	EPA 200.8	0.02	0.2			
2010/11-3	MO-OJA	matrix spike dup, rec	12/1/2010	Metal	Thallium	Dissolved	=	109	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	12/1/2010	Metal	Thallium	Dissolved	=	111	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	12/1/2010	Metal	Thallium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Thallium	Total	=	46.5	µg/L	EPA 200.8	0.02	0.2			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Thallium	Total	=	93	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Thallium	Total	DNQ	0.04	µg/L	EPA 200.8	0.02	0.2			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Thallium	Total	=	47.6	µg/L	EPA 200.8	0.02	0.2			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Thallium	Total	=	48.3	µg/L	EPA 200.8	0.02	0.2			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Thallium	Total	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Thallium	Total	=	95	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Thallium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Metal	Zinc	Dissolved	=	45.5	µg/L	EPA 200.8	0.3	5			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Zinc	Dissolved	=	91	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Zinc	Dissolved	DNQ	0.31	µg/L	EPA 200.8	0.3	5			IP
2010/11-3	Lab	LCS	11/30/2010	Metal	Zinc	Total	=	45.5	µg/L	EPA 200.8	0.3	5			
2010/11-3	Lab	LCS, rec	11/30/2010	Metal	Zinc	Total	=	91	%	EPA 200.8	-88	-88	85	115	
2010/11-3	Lab	method blank	11/30/2010	Metal	Zinc	Total	DNQ	0.31	µg/L	EPA 200.8	0.3	5			IP
2010/11-3	MO-OJA	matrix spike	11/30/2010	Metal	Zinc	Total	=	120	µg/L	EPA 200.8	0.3	5			
2010/11-3	MO-OJA	matrix spike dup	11/30/2010	Metal	Zinc	Total	=	122	µg/L	EPA 200.8	0.3	5			
2010/11-3	MO-OJA	matrix spike dup, rec	11/30/2010	Metal	Zinc	Total	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, rec	11/30/2010	Metal	Zinc	Total	=	87	%	EPA 200.8	-88	-88	70	130	
2010/11-3	MO-OJA	matrix spike, RPD	11/30/2010	Metal	Zinc	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-3	000NONPJ	matrix spike	12/2/2010	Nutrient	Ammonia as N	n/a	=	5.5	mg/L	EPA 350.1	0.24	0.5			D,GB
2010/11-3	000NONPJ	matrix spike	12/2/2010	Nutrient	Ammonia as N	n/a	=	1.09	mg/L	EPA 350.1	0.048	0.1			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Nutrient	Ammonia as N	n/a	=	1.09	mg/L	EPA 350.1	0.048	0.1			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Nutrient	Ammonia as N	n/a	=	5.6	mg/L	EPA 350.1	0.24	0.5			D,GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Nutrient	Ammonia as N	n/a	=	99	%	EPA 350.1	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Nutrient	Ammonia as N	n/a	=	82	%	EPA 350.1	-88	-88	90	110	D,GB
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Nutrient	Ammonia as N	n/a	=	99	%	EPA 350.1	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Nutrient	Ammonia as N	n/a	=	72	%	EPA 350.1	-88	-88	90	110	D,GB
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Nutrient	Ammonia as N	n/a	=	0	%	EPA 350.1	-88	-88	0	10	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Nutrient	Ammonia as N	n/a	=	2	%	EPA 350.1	-88	-88	0	10	D
2010/11-3	Lab	LCS	12/2/2010	Nutrient	Ammonia as N	n/a	=	0.998	mg/L	EPA 350.1	0.048	0.1			
2010/11-3	Lab	LCS, rec	12/2/2010	Nutrient	Ammonia as N	n/a	=	100	%	EPA 350.1	-88	-88	90	110	
2010/11-3	Lab	method blank	12/2/2010	Nutrient	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1			
2010/11-3	000NONPJ	matrix spike	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	8.8	mg/L	EPA 353.2	0.01	0.1			
2010/11-3	000NONPJ	matrix spike	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	8.68	mg/L	EPA 353.2	0.01	0.1			
2010/11-3	000NONPJ	matrix spike dup	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	8.7	mg/L	EPA 353.2	0.01	0.1			
2010/11-3	000NONPJ	matrix spike dup	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	8.65	mg/L	EPA 353.2	0.01	0.1			
2010/11-3	000NONPJ	matrix spike dup, rec	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	106	%	EPA 353.2	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike dup, rec	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	100	%	EPA 353.2	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike, rec	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	108	%	EPA 353.2	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike, rec	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	106	%	EPA 353.2	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike, RPD	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	0.4	%	EPA 353.2	-88	-88	0	20	
2010/11-3	000NONPJ	matrix spike, RPD	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	
2010/11-3	Lab	LCS	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	1.05	mg/L	EPA 353.2	0.01	0.1			
2010/11-3	Lab	LCS, rec	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	=	105	%	EPA 353.2	-88	-88	90	110	
2010/11-3	Lab	method blank	11/22/2010	Nutrient	Nitrate + Nitrite as N	n/a	<	0.01	mg/L	EPA 353.2	0.01	0.1			
2010/11-3	000NONPJ	matrix spike	11/22/2010	Nutrient	Nitrate as N	n/a	=	8.8	mg/L	EPA 353.2	0.041	0.1			
2010/11-3	000NONPJ	matrix spike	11/22/2010	Nutrient	Nitrate as N	n/a	=	8.68	mg/L	EPA 353.2	0.041	0.1			
2010/11-3	000NONPJ	matrix spike dup	11/22/2010	Nutrient	Nitrate as N	n/a	=	8.65	mg/L	EPA 353.2	0.041	0.1			
2010/11-3	000NONPJ	matrix spike dup	11/22/2010	Nutrient	Nitrate as N	n/a	=	8.7	mg/L	EPA 353.2	0.041	0.1			
2010/11-3	000NONPJ	matrix spike dup, rec	11/22/2010	Nutrient	Nitrate as N	n/a	=	106	%	EPA 353.2	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike dup, rec	11/22/2010	Nutrient	Nitrate as N	n/a	=	100	%	EPA 353.2	-88	-88	90	110	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	000NONPJ	matrix spike, rec	11/22/2010	Nutrient	Nitrate as N	n/a	=	108	%	EPA 353.2	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike, rec	11/22/2010	Nutrient	Nitrate as N	n/a	=	106	%	EPA 353.2	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike, RPD	11/22/2010	Nutrient	Nitrate as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	
2010/11-3	000NONPJ	matrix spike, RPD	11/22/2010	Nutrient	Nitrate as N	n/a	=	0.4	%	EPA 353.2	-88	-88	0	20	
2010/11-3	Lab	LCS	11/22/2010	Nutrient	Nitrate as N	n/a	=	1.05	mg/L	EPA 353.2	0.041	0.1			
2010/11-3	Lab	LCS, rec	11/22/2010	Nutrient	Nitrate as N	n/a	=	105	%	EPA 353.2	-88	-88	90	110	
2010/11-3	Lab	method blank	11/22/2010	Nutrient	Nitrate as N	n/a	<	0.041	mg/L	EPA 353.2	0.041	0.1			
2010/11-3	Lab	LCS	12/1/2010	Nutrient	Phosphorus as P	Dissolved	=	0.0458	mg/L	EPA 365.1	0.0014	0.01			
2010/11-3	Lab	LCS, rec	12/1/2010	Nutrient	Phosphorus as P	Dissolved	=	92	%	EPA 365.1	-88	-88	90	110	
2010/11-3	Lab	method blank	12/1/2010	Nutrient	Phosphorus as P	Dissolved	DNQ	0.0015	mg/L	EPA 365.1	0.0014	0.01			IP
2010/11-3	000NONPJ	matrix spike	12/1/2010	Nutrient	Phosphorus as P	Total	=	0.122	mg/L	EPA 365.1	0.0014	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/1/2010	Nutrient	Phosphorus as P	Total	=	0.121	mg/L	EPA 365.1	0.0014	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/1/2010	Nutrient	Phosphorus as P	Total	=	104	%	EPA 365.1	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike, rec	12/1/2010	Nutrient	Phosphorus as P	Total	=	106	%	EPA 365.1	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike, RPD	12/1/2010	Nutrient	Phosphorus as P	Total	=	0.8	%	EPA 365.1	-88	-88	0	10	
2010/11-3	Lab	LCS	12/1/2010	Nutrient	Phosphorus as P	Total	=	0.0458	mg/L	EPA 365.1	0.0014	0.01			
2010/11-3	Lab	LCS, rec	12/1/2010	Nutrient	Phosphorus as P	Total	=	92	%	EPA 365.1	-88	-88	90	110	
2010/11-3	Lab	method blank	12/1/2010	Nutrient	Phosphorus as P	Total	DNQ	0.0015	mg/L	EPA 365.1	0.0014	0.01			IP
2010/11-3	MO-OJA	matrix spike	12/1/2010	Nutrient	Phosphorus as P	Total	=	0.37	mg/L	EPA 365.1	0.007	0.05			D,GB
2010/11-3	MO-OJA	matrix spike dup	12/1/2010	Nutrient	Phosphorus as P	Total	=	0.382	mg/L	EPA 365.1	0.007	0.05			D,GB
2010/11-3	MO-OJA	matrix spike dup, rec	12/1/2010	Nutrient	Phosphorus as P	Total	=	44	%	EPA 365.1	-88	-88	90	110	D,GB
2010/11-3	MO-OJA	matrix spike, rec	12/1/2010	Nutrient	Phosphorus as P	Total	=	22	%	EPA 365.1	-88	-88	90	110	D,GB
2010/11-3	MO-OJA	matrix spike, RPD	12/1/2010	Nutrient	Phosphorus as P	Total	=	3	%	EPA 365.1	-88	-88	0	10	D
2010/11-3	000NONPJ	matrix spike	12/9/2010	Nutrient	TKN	n/a	=	0.506	mg/L	EPA 351.2	0.074	0.1			
2010/11-3	000NONPJ	matrix spike dup	12/9/2010	Nutrient	TKN	n/a	=	0.502	mg/L	EPA 351.2	0.074	0.1			
2010/11-3	000NONPJ	matrix spike dup, rec	12/9/2010	Nutrient	TKN	n/a	=	100	%	EPA 351.2	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike, rec	12/9/2010	Nutrient	TKN	n/a	=	101	%	EPA 351.2	-88	-88	90	110	
2010/11-3	000NONPJ	matrix spike, RPD	12/9/2010	Nutrient	TKN	n/a	=	0.8	%	EPA 351.2	-88	-88	0	15	
2010/11-3	Lab	LCS	12/9/2010	Nutrient	TKN	n/a	=	1.03	mg/L	EPA 351.2	0.074	0.1			
2010/11-3	Lab	LCS, rec	12/9/2010	Nutrient	TKN	n/a	=	103	%	EPA 351.2	-88	-88	90	110	
2010/11-3	Lab	method blank	12/9/2010	Nutrient	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1			
2010/11-3	Lab	LCS	12/4/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	32.2	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	36.4	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	73	%	EPA 625	-88	-88	44	142	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	64	%	EPA 625	-88	-88	44	142	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	1,2,4-Trichlorobenzene	n/a	=	12	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	38.6	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	38.5	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	77	%	EPA 625	-88	-88	44	142	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	77	%	EPA 625	-88	-88	44	142	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	0.3	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS	12/4/2010	Organic	1,2-Dichlorobenzene	n/a	=	33.1	µg/L	EPA 625	0.3	2			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	1,2-Dichlorobenzene	n/a	=	35.5	µg/L	EPA 625	0.3	2			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	1,2-Dichlorobenzene	n/a	=	71	%	EPA 625	-88	-88	32	129	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	1,2-Dichlorobenzene	n/a	=	66	%	EPA 625	-88	-88	32	129	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	1,2-Dichlorobenzene	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2			
2010/11-3	Lab	LCS	1/5/2011	Organic	1,2-Dichlorobenzene	n/a	=	38.9	µg/L	EPA 625	0.3	2			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	1,2-Dichlorobenzene	n/a	=	39.3	µg/L	EPA 625	0.3	2			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	1,2-Dichlorobenzene	n/a	=	79	%	EPA 625	-88	-88	32	129	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	1,2-Dichlorobenzene	n/a	=	78	%	EPA 625	-88	-88	32	129	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	1,2-Dichlorobenzene	n/a	=	1	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2			
2010/11-3	Lab	srgt LCS	11/29/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.2	µg/L	EPA 524.2	0	0			X
2010/11-3	Lab	srgt LCS dup	11/29/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.2	µg/L	EPA 524.2	0	0			X
2010/11-3	Lab	srgt LCS dup, rec	11/29/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	102	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	Lab	srgt LCS, rec	11/29/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	102	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	Lab	srgt method blank	11/29/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.92	µg/L	EPA 524.2	0	0			X
2010/11-3	Lab	srgt method blank, rec	11/29/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	99	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	MO-MEI	srgt environ	11/30/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.2	µg/L	EPA 524.2	0	0			X
2010/11-3	MO-MEI	srgt environ	11/30/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.85	µg/L	EPA 524.2	0	0			X
2010/11-3	MO-MEI	srgt environ, rec	11/30/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	98	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	MO-MEI	srgt environ, rec	11/30/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	102	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	MO-OJA	srgt environ	11/30/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	10	µg/L	EPA 524.2	0	0			X
2010/11-3	MO-OJA	srgt environ, rec	11/30/2010	Organic	1,2-Dichlorobenzene-d4	n/a	=	100	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	Lab	method blank	12/4/2010	Organic	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1			
2010/11-3	Lab	method blank	1/5/2011	Organic	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1			
2010/11-3	Lab	LCS	12/4/2010	Organic	1,3-Dichlorobenzene	n/a	=	31.6	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	1,3-Dichlorobenzene	n/a	=	34.1	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	1,3-Dichlorobenzene	n/a	=	68	%	EPA 625	-88	-88	0.1	172	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	1,3-Dichlorobenzene	n/a	=	63	%	EPA 625	-88	-88	0.1	172	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	1,3-Dichlorobenzene	n/a	=	8	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	LCS	1/5/2011	Organic	1,3-Dichlorobenzene	n/a	=	38.2	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	1,3-Dichlorobenzene	n/a	=	38.6	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	1,3-Dichlorobenzene	n/a	=	77	%	EPA 625	-88	-88	0.1	172	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	1,3-Dichlorobenzene	n/a	=	76	%	EPA 625	-88	-88	0.1	172	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	1,3-Dichlorobenzene	n/a	=	1	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	srgt LCS	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.521	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt LCS, rec	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	104	%	EPA 525.2	-88	-88	73	136	
2010/11-3	Lab	srgt matrix spike	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.502	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt matrix spike dup	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.491	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt matrix spike dup, rec	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	98	%	EPA 525.2	-88	-88	73	136	
2010/11-3	Lab	srgt matrix spike, rec	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	100	%	EPA 525.2	-88	-88	73	136	
2010/11-3	Lab	srgt method blank	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.505	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	
2010/11-3	Lab	srgt LCS	12/18/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.08	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt LCS, rec	12/18/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	102	%	EPA 525.2	-88	-88	73	136	
2010/11-3	Lab	srgt method blank	12/18/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.5	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/18/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	90	%	EPA 525.2	-88	-88	73	136	
2010/11-3	MO-MEI	srgt environ	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.495	µg/L	EPA 525.2	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	MO-MEI	srgt environ, rec	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	99	%	EPA 525.2	-88	-88	73	136	
2010/11-3	MO-MEI	srgt environ	12/18/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.08	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	12/18/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	95	%	EPA 525.2	-88	-88	73	136	
2010/11-3	MO-OJA	srgt environ	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.493	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/15/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	99	%	EPA 525.2	-88	-88	73	136	
2010/11-3	MO-OJA	srgt environ	12/18/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.2	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/18/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	104	%	EPA 525.2	-88	-88	73	136	
2010/11-3	MO-OJA	srgt matrix spike	12/18/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.36	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-OJA	srgt matrix spike, rec	12/18/2010	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	107	%	EPA 525.2	-88	-88	73	136	
2010/11-3	Lab	LCS	12/4/2010	Organic	1,4-Dichlorobenzene	n/a	=	32.3	µg/L	EPA 625	0.32	1			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	1,4-Dichlorobenzene	n/a	=	35	µg/L	EPA 625	0.32	1			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	1,4-Dichlorobenzene	n/a	=	70	%	EPA 625	-88	-88	20	124	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	1,4-Dichlorobenzene	n/a	=	65	%	EPA 625	-88	-88	20	124	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	1,4-Dichlorobenzene	n/a	=	8	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1			
2010/11-3	Lab	LCS	1/5/2011	Organic	1,4-Dichlorobenzene	n/a	=	39.7	µg/L	EPA 625	0.32	1			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	1,4-Dichlorobenzene	n/a	=	40.4	µg/L	EPA 625	0.32	1			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	1,4-Dichlorobenzene	n/a	=	81	%	EPA 625	-88	-88	20	124	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	1,4-Dichlorobenzene	n/a	=	79	%	EPA 625	-88	-88	20	124	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	1,4-Dichlorobenzene	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1			
2010/11-3	Lab	method blank	12/15/2010	Organic	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1			
2010/11-3	Lab	srgt LCS	12/4/2010	Organic	2,4,6-Tribromophenol	n/a	=	84.6	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/4/2010	Organic	2,4,6-Tribromophenol	n/a	=	89.9	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/4/2010	Organic	2,4,6-Tribromophenol	n/a	=	90	%	EPA 625	-88	-88	0.1	157	
2010/11-3	Lab	srgt LCS, rec	12/4/2010	Organic	2,4,6-Tribromophenol	n/a	=	85	%	EPA 625	-88	-88	0.1	157	
2010/11-3	Lab	srgt method blank	12/4/2010	Organic	2,4,6-Tribromophenol	n/a	=	79.7	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/4/2010	Organic	2,4,6-Tribromophenol	n/a	=	80	%	EPA 625	-88	-88	0.1	157	
2010/11-3	Lab	srgt LCS	12/15/2010	Organic	2,4,6-Tribromophenol	n/a	=	9.12	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/15/2010	Organic	2,4,6-Tribromophenol	n/a	=	7.11	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/15/2010	Organic	2,4,6-Tribromophenol	n/a	=	71	%	EPA 8270Cm	-88	-88	44	115	
2010/11-3	Lab	srgt LCS, rec	12/15/2010	Organic	2,4,6-Tribromophenol	n/a	=	91	%	EPA 8270Cm	-88	-88	44	115	
2010/11-3	Lab	srgt method blank	12/15/2010	Organic	2,4,6-Tribromophenol	n/a	=	5.33	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/15/2010	Organic	2,4,6-Tribromophenol	n/a	=	53	%	EPA 8270Cm	-88	-88	44	115	
2010/11-3	Lab	srgt LCS	1/5/2011	Organic	2,4,6-Tribromophenol	n/a	=	99.5	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	1/5/2011	Organic	2,4,6-Tribromophenol	n/a	=	101	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	1/5/2011	Organic	2,4,6-Tribromophenol	n/a	=	101	%	EPA 625	-88	-88	0.1	157	
2010/11-3	Lab	srgt LCS, rec	1/5/2011	Organic	2,4,6-Tribromophenol	n/a	=	100	%	EPA 625	-88	-88	0.1	157	
2010/11-3	Lab	srgt method blank	1/5/2011	Organic	2,4,6-Tribromophenol	n/a	=	91.6	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt method blank, rec	1/5/2011	Organic	2,4,6-Tribromophenol	n/a	=	92	%	EPA 625	-88	-88	0.1	157	
2010/11-3	MO-MEI	srgt environ	12/15/2010	Organic	2,4,6-Tribromophenol	n/a	=	8.01	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	12/15/2010	Organic	2,4,6-Tribromophenol	n/a	=	80	%	EPA 8270Cm	-88	-88	44	115	
2010/11-3	MO-MEI	srgt environ	1/5/2011	Organic	2,4,6-Tribromophenol	n/a	=	85.2	µg/L	EPA 625	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	1/5/2011	Organic	2,4,6-Tribromophenol	n/a	=	85	%	EPA 625	-88	-88	0.1	157	
2010/11-3	MO-OJA	srgt environ	12/4/2010	Organic	2,4,6-Tribromophenol	n/a	=	88.4	µg/L	EPA 625	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/4/2010	Organic	2,4,6-Tribromophenol	n/a	=	88	%	EPA 625	-88	-88	0.1	157	
2010/11-3	MO-OJA	srgt environ	12/15/2010	Organic	2,4,6-Tribromophenol	n/a	=	9.39	µg/L	EPA 8270Cm	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	MO-OJA	srgt environ, rec	12/15/2010	Organic	2,4,6-Tribromophenol	n/a	=	94	%	EPA 8270Cm	-88	-88	44	115	
2010/11-3	Lab	LCS	12/15/2010	Organic	2,4,6-Trichlorophenol	n/a	=	4.25	µg/L	EPA 8270Cm	0.3	1			
2010/11-3	Lab	LCS dup	12/15/2010	Organic	2,4,6-Trichlorophenol	n/a	=	3.26	µg/L	EPA 8270Cm	0.3	1			
2010/11-3	Lab	LCS dup, rec	12/15/2010	Organic	2,4,6-Trichlorophenol	n/a	=	65	%	EPA 8270Cm	-88	-88	52	150	
2010/11-3	Lab	LCS, rec	12/15/2010	Organic	2,4,6-Trichlorophenol	n/a	=	85	%	EPA 8270Cm	-88	-88	52	150	
2010/11-3	Lab	LCS, RPD	12/15/2010	Organic	2,4,6-Trichlorophenol	n/a	=	26	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/15/2010	Organic	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			
2010/11-3	Lab	LCS	12/15/2010	Organic	2,4-Dichlorophenol	n/a	=	4.08	µg/L	EPA 8270Cm	0.51	1			
2010/11-3	Lab	LCS dup	12/15/2010	Organic	2,4-Dichlorophenol	n/a	=	3.13	µg/L	EPA 8270Cm	0.51	1			
2010/11-3	Lab	LCS dup, rec	12/15/2010	Organic	2,4-Dichlorophenol	n/a	=	63	%	EPA 8270Cm	-88	-88	53	106	
2010/11-3	Lab	LCS, rec	12/15/2010	Organic	2,4-Dichlorophenol	n/a	=	82	%	EPA 8270Cm	-88	-88	53	106	
2010/11-3	Lab	LCS, RPD	12/15/2010	Organic	2,4-Dichlorophenol	n/a	=	26	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/15/2010	Organic	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1			
2010/11-3	Lab	srgt LCS	12/1/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.78	µg/L	EPA 515.3	-88	-88			
2010/11-3	Lab	srgt LCS, rec	12/1/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	srgt method blank	12/1/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	7.72	µg/L	EPA 515.3	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/1/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	77	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	srgt LCS	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.02	µg/L	EPA 515.3	-88	-88			
2010/11-3	Lab	srgt LCS, rec	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	80	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	srgt matrix spike	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	7.95	µg/L	EPA 515.3	-88	-88			
2010/11-3	Lab	srgt matrix spike dup	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	7.87	µg/L	EPA 515.3	-88	-88			
2010/11-3	Lab	srgt matrix spike dup, rec	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	79	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	srgt matrix spike, rec	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	79	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	srgt method blank	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.92	µg/L	EPA 515.3	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	99	%	EPA 515.3	-88	-88	70	130	
2010/11-3	MO-MEI	srgt environ	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	7.75	µg/L	EPA 515.3	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	77	%	EPA 515.3	-88	-88	70	130	
2010/11-3	MO-OJA	srgt environ	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	7.41	µg/L	EPA 515.3	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/2/2010	Organic	2,4-Dichlorophenylacetic acid	n/a	=	74	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	LCS	12/15/2010	Organic	2,4-Dimethylphenol	n/a	=	4.6	µg/L	EPA 8270Cm	1	2			
2010/11-3	Lab	LCS dup	12/15/2010	Organic	2,4-Dimethylphenol	n/a	=	3.63	µg/L	EPA 8270Cm	1	2			
2010/11-3	Lab	LCS dup, rec	12/15/2010	Organic	2,4-Dimethylphenol	n/a	=	73	%	EPA 8270Cm	-88	-88	21	99	
2010/11-3	Lab	LCS, rec	12/15/2010	Organic	2,4-Dimethylphenol	n/a	=	92	%	EPA 8270Cm	-88	-88	21	99	
2010/11-3	Lab	LCS, RPD	12/15/2010	Organic	2,4-Dimethylphenol	n/a	=	24	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/15/2010	Organic	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-3	Lab	LCS	12/15/2010	Organic	2,4-Dinitrophenol	n/a	=	1.71	µg/L	EPA 8270Cm	1	1			
2010/11-3	Lab	LCS dup	12/15/2010	Organic	2,4-Dinitrophenol	n/a	=	2.14	µg/L	EPA 8270Cm	1	2			
2010/11-3	Lab	LCS dup, rec	12/15/2010	Organic	2,4-Dinitrophenol	n/a	=	43	%	EPA 8270Cm	-88	-88	2	227	
2010/11-3	Lab	LCS, rec	12/15/2010	Organic	2,4-Dinitrophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	2	227	
2010/11-3	Lab	LCS, RPD	12/15/2010	Organic	2,4-Dinitrophenol	n/a	=	22	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/15/2010	Organic	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-3	Lab	LCS	12/4/2010	Organic	2,4-Dinitrotoluene	n/a	=	44.7	µg/L	EPA 625	0.4	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	2,4-Dinitrotoluene	n/a	=	48.1	µg/L	EPA 625	0.4	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	2,4-Dinitrotoluene	n/a	=	96	%	EPA 625	-88	-88	39	139	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	2,4-Dinitrotoluene	n/a	=	89	%	EPA 625	-88	-88	39	139	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	2,4-Dinitrotoluene	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS	1/5/2011	Organic	2,4-Dinitrotoluene	n/a	=	44.5	µg/L	EPA 625	0.4	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	2,4-Dinitrotoluene	n/a	=	45.2	µg/L	EPA 625	0.4	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	2,4-Dinitrotoluene	n/a	=	90	%	EPA 625	-88	-88	39	139	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	2,4-Dinitrotoluene	n/a	=	89	%	EPA 625	-88	-88	39	139	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	2,4-Dinitrotoluene	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5			
2010/11-3	Lab	LCS	12/4/2010	Organic	2,6-Dinitrotoluene	n/a	=	38.2	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	2,6-Dinitrotoluene	n/a	=	42.8	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	2,6-Dinitrotoluene	n/a	=	86	%	EPA 625	-88	-88	50	158	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	2,6-Dinitrotoluene	n/a	=	76	%	EPA 625	-88	-88	50	158	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	2,6-Dinitrotoluene	n/a	=	12	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	2,6-Dinitrotoluene	n/a	=	47	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	2,6-Dinitrotoluene	n/a	=	47	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	2,6-Dinitrotoluene	n/a	=	94	%	EPA 625	-88	-88	50	158	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	2,6-Dinitrotoluene	n/a	=	94	%	EPA 625	-88	-88	50	158	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	2,6-Dinitrotoluene	n/a	=	0.02	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS	11/29/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	4.8	µg/L	EPA 524.2	0.35	1			X
2010/11-3	Lab	LCS dup	11/29/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	4.72	µg/L	EPA 524.2	0.35	1			X
2010/11-3	Lab	LCS dup, rec	11/29/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	79	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	Lab	LCS, rec	11/29/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	80	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	Lab	LCS, RPD	11/29/2010	Organic	2-Chloroethyl vinyl ether	n/a	=	2	%	EPA 524.2	-88	-88	0	30	X
2010/11-3	Lab	method blank	11/29/2010	Organic	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1			X
2010/11-3	MO-MEI	field duplicate	11/30/2010	Organic	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1			X
2010/11-3	Lab	LCS	12/4/2010	Organic	2-Chloronaphthalene	n/a	=	34	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	2-Chloronaphthalene	n/a	=	38.3	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	2-Chloronaphthalene	n/a	=	77	%	EPA 625	-88	-88	60	118	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	2-Chloronaphthalene	n/a	=	68	%	EPA 625	-88	-88	60	118	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	2-Chloronaphthalene	n/a	=	12	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	2-Chloronaphthalene	n/a	=	47.3	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	2-Chloronaphthalene	n/a	=	47.2	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	2-Chloronaphthalene	n/a	=	94	%	EPA 625	-88	-88	60	118	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	2-Chloronaphthalene	n/a	=	95	%	EPA 625	-88	-88	60	118	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	2-Chloronaphthalene	n/a	=	0.1	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-3	Lab	LCS	12/15/2010	Organic	2-Chlorophenol	n/a	=	3.91	µg/L	EPA 8270Cm	0.65	1			
2010/11-3	Lab	LCS dup	12/15/2010	Organic	2-Chlorophenol	n/a	=	3	µg/L	EPA 8270Cm	0.65	1			
2010/11-3	Lab	LCS dup, rec	12/15/2010	Organic	2-Chlorophenol	n/a	=	60	%	EPA 8270Cm	-88	-88	46	92	
2010/11-3	Lab	LCS, rec	12/15/2010	Organic	2-Chlorophenol	n/a	=	78	%	EPA 8270Cm	-88	-88	46	92	
2010/11-3	Lab	LCS, RPD	12/15/2010	Organic	2-Chlorophenol	n/a	=	26	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/15/2010	Organic	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1			
2010/11-3	Lab	srgt LCS	12/4/2010	Organic	2-Fluorobiphenyl	n/a	=	34.8	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/4/2010	Organic	2-Fluorobiphenyl	n/a	=	39.6	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/4/2010	Organic	2-Fluorobiphenyl	n/a	=	79	%	EPA 625	-88	-88	22	130	
2010/11-3	Lab	srgt LCS, rec	12/4/2010	Organic	2-Fluorobiphenyl	n/a	=	70	%	EPA 625	-88	-88	22	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	srgt method blank	12/4/2010	Organic	2-Fluorobiphenyl	n/a	=	39.3	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/4/2010	Organic	2-Fluorobiphenyl	n/a	=	79	%	EPA 625	-88	-88	22	130	
2010/11-3	Lab	srgt LCS	12/10/2010	Organic	2-Fluorobiphenyl	n/a	=	3.57	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/10/2010	Organic	2-Fluorobiphenyl	n/a	=	2.73	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/10/2010	Organic	2-Fluorobiphenyl	n/a	=	55	%	EPA 8270Cm	-88	-88	51	139	
2010/11-3	Lab	srgt LCS, rec	12/10/2010	Organic	2-Fluorobiphenyl	n/a	=	71	%	EPA 8270Cm	-88	-88	51	139	
2010/11-3	Lab	srgt method blank	12/10/2010	Organic	2-Fluorobiphenyl	n/a	=	3.05	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/10/2010	Organic	2-Fluorobiphenyl	n/a	=	61	%	EPA 8270Cm	-88	-88	51	139	
2010/11-3	Lab	srgt LCS	1/5/2011	Organic	2-Fluorobiphenyl	n/a	=	49.8	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	1/5/2011	Organic	2-Fluorobiphenyl	n/a	=	48.2	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	1/5/2011	Organic	2-Fluorobiphenyl	n/a	=	96	%	EPA 625	-88	-88	22	130	
2010/11-3	Lab	srgt LCS, rec	1/5/2011	Organic	2-Fluorobiphenyl	n/a	=	100	%	EPA 625	-88	-88	22	130	
2010/11-3	Lab	srgt method blank	1/5/2011	Organic	2-Fluorobiphenyl	n/a	=	47.2	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt method blank, rec	1/5/2011	Organic	2-Fluorobiphenyl	n/a	=	94	%	EPA 625	-88	-88	22	130	
2010/11-3	MO-MEI	srgt environ	12/10/2010	Organic	2-Fluorobiphenyl	n/a	=	2.33	µg/L	EPA 8270Cm	-88	-88			GN
2010/11-3	MO-MEI	srgt environ, rec	12/10/2010	Organic	2-Fluorobiphenyl	n/a	=	47	%	EPA 8270Cm	-88	-88	51	139	GN
2010/11-3	MO-MEI	srgt environ	1/5/2011	Organic	2-Fluorobiphenyl	n/a	=	38	µg/L	EPA 625	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	1/5/2011	Organic	2-Fluorobiphenyl	n/a	=	76	%	EPA 625	-88	-88	22	130	
2010/11-3	MO-OJA	srgt environ	12/4/2010	Organic	2-Fluorobiphenyl	n/a	=	39.7	µg/L	EPA 625	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/4/2010	Organic	2-Fluorobiphenyl	n/a	=	79	%	EPA 625	-88	-88	22	130	
2010/11-3	MO-OJA	srgt environ	12/10/2010	Organic	2-Fluorobiphenyl	n/a	=	2.63	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/10/2010	Organic	2-Fluorobiphenyl	n/a	=	53	%	EPA 8270Cm	-88	-88	51	139	
2010/11-3	Lab	srgt LCS	12/4/2010	Organic	2-Fluorophenol	n/a	=	53.2	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/4/2010	Organic	2-Fluorophenol	n/a	=	57.1	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/4/2010	Organic	2-Fluorophenol	n/a	=	57	%	EPA 625	-88	-88	6	96	
2010/11-3	Lab	srgt LCS, rec	12/4/2010	Organic	2-Fluorophenol	n/a	=	53	%	EPA 625	-88	-88	6	96	
2010/11-3	Lab	srgt method blank	12/4/2010	Organic	2-Fluorophenol	n/a	=	59.4	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/4/2010	Organic	2-Fluorophenol	n/a	=	59	%	EPA 625	-88	-88	6	96	
2010/11-3	Lab	srgt LCS	12/15/2010	Organic	2-Fluorophenol	n/a	=	4.99	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/15/2010	Organic	2-Fluorophenol	n/a	=	3.66	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/15/2010	Organic	2-Fluorophenol	n/a	=	37	%	EPA 8270Cm	-88	-88	24	82	
2010/11-3	Lab	srgt LCS, rec	12/15/2010	Organic	2-Fluorophenol	n/a	=	50	%	EPA 8270Cm	-88	-88	24	82	
2010/11-3	Lab	srgt method blank	12/15/2010	Organic	2-Fluorophenol	n/a	=	3.43	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/15/2010	Organic	2-Fluorophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	24	82	
2010/11-3	Lab	srgt LCS	1/5/2011	Organic	2-Fluorophenol	n/a	=	45.7	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	1/5/2011	Organic	2-Fluorophenol	n/a	=	44.1	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	1/5/2011	Organic	2-Fluorophenol	n/a	=	44	%	EPA 625	-88	-88	6	96	
2010/11-3	Lab	srgt LCS, rec	1/5/2011	Organic	2-Fluorophenol	n/a	=	46	%	EPA 625	-88	-88	6	96	
2010/11-3	Lab	srgt method blank	1/5/2011	Organic	2-Fluorophenol	n/a	=	91	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt method blank, rec	1/5/2011	Organic	2-Fluorophenol	n/a	=	91	%	EPA 625	-88	-88	6	96	
2010/11-3	MO-MEI	srgt environ	12/15/2010	Organic	2-Fluorophenol	n/a	=	4	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	12/15/2010	Organic	2-Fluorophenol	n/a	=	40	%	EPA 8270Cm	-88	-88	24	82	
2010/11-3	MO-MEI	srgt environ	1/5/2011	Organic	2-Fluorophenol	n/a	=	40.9	µg/L	EPA 625	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	1/5/2011	Organic	2-Fluorophenol	n/a	=	41	%	EPA 625	-88	-88	6	96	
2010/11-3	MO-OJA	srgt environ	12/4/2010	Organic	2-Fluorophenol	n/a	=	55.7	µg/L	EPA 625	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/4/2010	Organic	2-Fluorophenol	n/a	=	56	%	EPA 625	-88	-88	6	96	
2010/11-3	MO-OJA	srgt environ	12/15/2010	Organic	2-Fluorophenol	n/a	=	4.08	µg/L	EPA 8270Cm	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	MO-OJA	srgt environ, rec	12/15/2010	Organic	2-Fluorophenol	n/a	=	41	%	EPA 8270Cm	-88	-88	24	82	
2010/11-3	Lab	method blank	12/15/2010	Organic	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1			
2010/11-3	Lab	LCS	12/15/2010	Organic	2-Nitrophenol	n/a	=	4.25	µg/L	EPA 8270Cm	0.71	1			
2010/11-3	Lab	LCS dup	12/15/2010	Organic	2-Nitrophenol	n/a	=	3.26	µg/L	EPA 8270Cm	0.71	1			
2010/11-3	Lab	LCS dup, rec	12/15/2010	Organic	2-Nitrophenol	n/a	=	65	%	EPA 8270Cm	-88	-88	48	197	
2010/11-3	Lab	LCS, rec	12/15/2010	Organic	2-Nitrophenol	n/a	=	85	%	EPA 8270Cm	-88	-88	48	197	
2010/11-3	Lab	LCS, RPD	12/15/2010	Organic	2-Nitrophenol	n/a	=	26	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/15/2010	Organic	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1			
2010/11-3	Lab	LCS	12/4/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	91.9	µg/L	EPA 625	0.3	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	98.2	µg/L	EPA 625	0.3	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	196	%	EPA 625	-88	-88	0.1	262	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	184	%	EPA 625	-88	-88	0.1	262	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	3,3'-Dichlorobenzidine	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	86.4	µg/L	EPA 625	0.3	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	83.7	µg/L	EPA 625	0.3	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	167	%	EPA 625	-88	-88	0.1	262	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	173	%	EPA 625	-88	-88	0.1	262	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			
2010/11-3	Lab	method blank	12/15/2010	Organic	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			
2010/11-3	Lab	LCS	12/15/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	3.67	µg/L	EPA 8270Cm	0.14	1			
2010/11-3	Lab	LCS dup	12/15/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	3.3	µg/L	EPA 8270Cm	0.14	1			
2010/11-3	Lab	LCS dup, rec	12/15/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	66	%	EPA 8270Cm	-88	-88	56	227	
2010/11-3	Lab	LCS, rec	12/15/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	73	%	EPA 8270Cm	-88	-88	56	227	
2010/11-3	Lab	LCS, RPD	12/15/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	=	11	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/15/2010	Organic	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1			
2010/11-3	Lab	srgt LCS	11/29/2010	Organic	4-Bromofluorobenzene	n/a	=	9.92	µg/L	EPA 524.2	0	0			X
2010/11-3	Lab	srgt LCS dup	11/29/2010	Organic	4-Bromofluorobenzene	n/a	=	10	µg/L	EPA 524.2	0	0			X
2010/11-3	Lab	srgt LCS dup, rec	11/29/2010	Organic	4-Bromofluorobenzene	n/a	=	100	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	Lab	srgt LCS, rec	11/29/2010	Organic	4-Bromofluorobenzene	n/a	=	99	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	Lab	srgt method blank	11/29/2010	Organic	4-Bromofluorobenzene	n/a	=	9.95	µg/L	EPA 524.2	0	0			X
2010/11-3	Lab	srgt method blank, rec	11/29/2010	Organic	4-Bromofluorobenzene	n/a	=	100	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	MO-MEI	srgt environ	11/30/2010	Organic	4-Bromofluorobenzene	n/a	=	9.28	µg/L	EPA 524.2	0	0			X
2010/11-3	MO-MEI	srgt environ	11/30/2010	Organic	4-Bromofluorobenzene	n/a	=	9.03	µg/L	EPA 524.2	0	0			X
2010/11-3	MO-MEI	srgt environ, rec	11/30/2010	Organic	4-Bromofluorobenzene	n/a	=	93	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	MO-MEI	srgt environ, rec	11/30/2010	Organic	4-Bromofluorobenzene	n/a	=	90	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	MO-OJA	srgt environ	11/30/2010	Organic	4-Bromofluorobenzene	n/a	=	9.09	µg/L	EPA 524.2	0	0			X
2010/11-3	MO-OJA	srgt environ, rec	11/30/2010	Organic	4-Bromofluorobenzene	n/a	=	91	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	Lab	LCS	12/4/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	38.6	µg/L	EPA 625	0.23	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	41.5	µg/L	EPA 625	0.23	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	83	%	EPA 625	-88	-88	56	127	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	77	%	EPA 625	-88	-88	56	127	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	4-Bromophenyl phenyl ether	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	42.1	µg/L	EPA 625	0.23	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	42.4	µg/L	EPA 625	0.23	5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	85	%	EPA 625	-88	-88	56	127	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	84	%	EPA 625	-88	-88	56	127	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	0.7	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5			
2010/11-3	Lab	LCS	12/15/2010	Organic	4-Chloro-3-methylphenol	n/a	=	4.06	µg/L	EPA 8270Cm	0.37	1			
2010/11-3	Lab	LCS dup	12/15/2010	Organic	4-Chloro-3-methylphenol	n/a	=	3.21	µg/L	EPA 8270Cm	0.37	1			
2010/11-3	Lab	LCS dup, rec	12/15/2010	Organic	4-Chloro-3-methylphenol	n/a	=	64	%	EPA 8270Cm	-88	-88	51	112	
2010/11-3	Lab	LCS, rec	12/15/2010	Organic	4-Chloro-3-methylphenol	n/a	=	81	%	EPA 8270Cm	-88	-88	51	112	
2010/11-3	Lab	LCS, RPD	12/15/2010	Organic	4-Chloro-3-methylphenol	n/a	=	23	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/15/2010	Organic	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1			
2010/11-3	Lab	LCS	12/4/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	40.1	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	43.6	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	87	%	EPA 625	-88	-88	25	158	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	80	%	EPA 625	-88	-88	25	158	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	4-Chlorophenyl phenyl ether	n/a	=	8	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	48.7	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	50.7	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	101	%	EPA 625	-88	-88	25	158	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	97	%	EPA 625	-88	-88	25	158	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	4	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-3	Lab	LCS	12/15/2010	Organic	4-Nitrophenol	n/a	=	1.71	µg/L	EPA 8270Cm	1	1			
2010/11-3	Lab	LCS dup	12/15/2010	Organic	4-Nitrophenol	n/a	=	1.56	µg/L	EPA 8270Cm	1	1			
2010/11-3	Lab	LCS dup, rec	12/15/2010	Organic	4-Nitrophenol	n/a	=	31	%	EPA 8270Cm	-88	-88	15	73	
2010/11-3	Lab	LCS, rec	12/15/2010	Organic	4-Nitrophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	15	73	
2010/11-3	Lab	LCS, RPD	12/15/2010	Organic	4-Nitrophenol	n/a	=	9	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/15/2010	Organic	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-3	Lab	LCS	12/10/2010	Organic	Acenaphthene	n/a	=	3.91	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Acenaphthene	n/a	=	3.08	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Acenaphthene	n/a	=	62	%	EPA 8270Cm	-88	-88	47	145	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Acenaphthene	n/a	=	78	%	EPA 8270Cm	-88	-88	47	145	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Acenaphthene	n/a	=	24	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-3	Lab	LCS	12/10/2010	Organic	Acenaphthylene	n/a	=	4.23	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Acenaphthylene	n/a	=	3.34	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Acenaphthylene	n/a	=	67	%	EPA 8270Cm	-88	-88	33	145	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Acenaphthylene	n/a	=	85	%	EPA 8270Cm	-88	-88	33	145	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Acenaphthylene	n/a	=	24	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-3	Lab	LCS	12/10/2010	Organic	Anthracene	n/a	=	4.48	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Anthracene	n/a	=	3.56	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Anthracene	n/a	=	71	%	EPA 8270Cm	-88	-88	27	133	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Anthracene	n/a	=	90	%	EPA 8270Cm	-88	-88	27	133	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Anthracene	n/a	=	23	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-3	Lab	LCS	12/10/2010	Organic	Benz(a)anthracene	n/a	=	4.88	µg/L	EPA 8270Cm	0.28	0.5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Benz(a)anthracene	n/a	=	4.02	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Benz(a)anthracene	n/a	=	80	%	EPA 8270Cm	-88	-88	33	143	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Benz(a)anthracene	n/a	=	98	%	EPA 8270Cm	-88	-88	33	143	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Benz(a)anthracene	n/a	=	19	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-3	Lab	method blank	12/4/2010	Organic	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5			
2010/11-3	Lab	method blank	1/5/2011	Organic	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5			
2010/11-3	Lab	LCS	12/18/2010	Organic	Benzo(a)pyrene	n/a	=	3.77	µg/L	EPA 525.2	0.073	0.1			
2010/11-3	Lab	LCS, rec	12/18/2010	Organic	Benzo(a)pyrene	n/a	=	75	%	EPA 525.2	-88	-88	54	136	
2010/11-3	Lab	method blank	12/18/2010	Organic	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Organic	Benzo(a)pyrene	n/a	=	3.63	µg/L	EPA 525.2	0.073	0.1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Organic	Benzo(a)pyrene	n/a	=	73	%	EPA 525.2	-88	-88	29	153	
2010/11-3	Lab	LCS	12/10/2010	Organic	Benzo(b)fluoranthene	n/a	=	2.99	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Benzo(b)fluoranthene	n/a	=	2.43	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Benzo(b)fluoranthene	n/a	=	49	%	EPA 8270Cm	-88	-88	24	159	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Benzo(b)fluoranthene	n/a	=	60	%	EPA 8270Cm	-88	-88	24	159	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Benzo(b)fluoranthene	n/a	=	21	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-3	Lab	LCS	12/10/2010	Organic	Benzo(g,h,i)perylene	n/a	=	3.22	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Benzo(g,h,i)perylene	n/a	=	2.45	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Benzo(g,h,i)perylene	n/a	=	49	%	EPA 8270Cm	-88	-88	0.1	219	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Benzo(g,h,i)perylene	n/a	=	64	%	EPA 8270Cm	-88	-88	0.1	219	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Benzo(g,h,i)perylene	n/a	=	27	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-3	Lab	LCS	12/10/2010	Organic	Benzo(k)fluoranthene	n/a	=	3.09	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Benzo(k)fluoranthene	n/a	=	2.54	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Benzo(k)fluoranthene	n/a	=	51	%	EPA 8270Cm	-88	-88	11	162	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Benzo(k)fluoranthene	n/a	=	62	%	EPA 8270Cm	-88	-88	11	162	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Benzo(k)fluoranthene	n/a	=	20	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-3	Lab	LCS	12/4/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	42.4	µg/L	EPA 625	0.4	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	50.3	µg/L	EPA 625	0.4	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	101	%	EPA 625	-88	-88	33	184	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	85	%	EPA 625	-88	-88	33	184	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Bis(2-chloroethoxy)methane	n/a	=	17	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	43	µg/L	EPA 625	0.4	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	42.7	µg/L	EPA 625	0.4	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	85	%	EPA 625	-88	-88	33	184	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	86	%	EPA 625	-88	-88	33	184	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	0.8	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5			
2010/11-3	Lab	LCS	12/4/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	36.2	µg/L	EPA 625	0.46	1			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	41.2	µg/L	EPA 625	0.46	1			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	82	%	EPA 625	-88	-88	12	158	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	72	%	EPA 625	-88	-88	12	158	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Bis(2-chloroethyl)ether	n/a	=	13	%	EPA 625	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	method blank	12/4/2010	Organic	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1			
2010/11-3	Lab	LCS	1/5/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	37	µg/L	EPA 625	0.46	1			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	36.6	µg/L	EPA 625	0.46	1			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	73	%	EPA 625	-88	-88	12	158	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	74	%	EPA 625	-88	-88	12	158	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	1	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1			
2010/11-3	Lab	LCS	12/4/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	32.4	µg/L	EPA 625	0.48	2			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	36.3	µg/L	EPA 625	0.48	2			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	73	%	EPA 625	-88	-88	36	166	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	65	%	EPA 625	-88	-88	36	166	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	=	11	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2			
2010/11-3	Lab	LCS	1/5/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	37.4	µg/L	EPA 625	0.48	2			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	36.1	µg/L	EPA 625	0.48	2			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	72	%	EPA 625	-88	-88	36	166	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	75	%	EPA 625	-88	-88	36	166	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	4	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2			
2010/11-3	Lab	LCS	12/18/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	2.97	µg/L	EPA 525.2	0.23	5			
2010/11-3	Lab	LCS, rec	12/18/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	59	%	EPA 525.2	-88	-88	50	145	
2010/11-3	Lab	method blank	12/18/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	3.11	µg/L	EPA 525.2	0.23	5			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Organic	Bis(2-ethylhexyl)adipate	n/a	=	62	%	EPA 525.2	-88	-88	28	147	
2010/11-3	Lab	LCS	12/18/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	3.2	µg/L	EPA 525.2	1.1	3			
2010/11-3	Lab	LCS, rec	12/18/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	64	%	EPA 525.2	-88	-88	54	142	
2010/11-3	Lab	method blank	12/18/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	4.54	µg/L	EPA 525.2	1.1	3			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	65	%	EPA 525.2	-88	-88	23	154	
2010/11-3	Lab	LCS	12/4/2010	Organic	Butyl benzyl phthalate	n/a	=	55.9	µg/L	EPA 625	1	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Butyl benzyl phthalate	n/a	=	57.6	µg/L	EPA 625	1	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Butyl benzyl phthalate	n/a	=	115	%	EPA 625	-88	-88	0.1	152	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Butyl benzyl phthalate	n/a	=	112	%	EPA 625	-88	-88	0.1	152	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Butyl benzyl phthalate	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	Butyl benzyl phthalate	n/a	=	53.9	µg/L	EPA 625	1	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Butyl benzyl phthalate	n/a	=	54.2	µg/L	EPA 625	1	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Butyl benzyl phthalate	n/a	=	108	%	EPA 625	-88	-88	0.1	152	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Butyl benzyl phthalate	n/a	=	108	%	EPA 625	-88	-88	0.1	152	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Butyl benzyl phthalate	n/a	=	0.6	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5			
2010/11-3	Lab	LCS	12/10/2010	Organic	Chrysene	n/a	=	3.16	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Chrysene	n/a	=	2.55	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Chrysene	n/a	=	51	%	EPA 8270Cm	-88	-88	17	168	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Chrysene	n/a	=	63	%	EPA 8270Cm	-88	-88	17	168	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Chrysene	n/a	=	21	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS	12/10/2010	Organic	Dibenz(a,h)anthracene	n/a	=	3.22	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Dibenz(a,h)anthracene	n/a	=	2.45	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Dibenz(a,h)anthracene	n/a	=	49	%	EPA 8270Cm	-88	-88	0.1	227	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Dibenz(a,h)anthracene	n/a	=	64	%	EPA 8270Cm	-88	-88	0.1	227	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Dibenz(a,h)anthracene	n/a	=	27	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-3	Lab	LCS	12/4/2010	Organic	Diethyl phthalate	n/a	=	44	µg/L	EPA 625	0.23	2			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Diethyl phthalate	n/a	=	47.4	µg/L	EPA 625	0.23	2			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Diethyl phthalate	n/a	=	95	%	EPA 625	-88	-88	0.1	112	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Diethyl phthalate	n/a	=	88	%	EPA 625	-88	-88	0.1	112	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Diethyl phthalate	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2			
2010/11-3	Lab	LCS	1/5/2011	Organic	Diethyl phthalate	n/a	=	45.6	µg/L	EPA 625	0.23	2			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Diethyl phthalate	n/a	=	45	µg/L	EPA 625	0.23	2			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Diethyl phthalate	n/a	=	90	%	EPA 625	-88	-88	0.1	112	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Diethyl phthalate	n/a	=	91	%	EPA 625	-88	-88	0.1	112	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Diethyl phthalate	n/a	=	1	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2			
2010/11-3	Lab	LCS	12/4/2010	Organic	Dimethyl phthalate	n/a	=	38.7	µg/L	EPA 625	0.26	2			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Dimethyl phthalate	n/a	=	43	µg/L	EPA 625	0.26	2			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Dimethyl phthalate	n/a	=	86	%	EPA 625	-88	-88	0.1	112	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Dimethyl phthalate	n/a	=	77	%	EPA 625	-88	-88	0.1	112	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Dimethyl phthalate	n/a	=	11	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2			
2010/11-3	Lab	LCS	1/5/2011	Organic	Dimethyl phthalate	n/a	=	47.6	µg/L	EPA 625	0.26	2			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Dimethyl phthalate	n/a	=	46.6	µg/L	EPA 625	0.26	2			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Dimethyl phthalate	n/a	=	93	%	EPA 625	-88	-88	0.1	112	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Dimethyl phthalate	n/a	=	95	%	EPA 625	-88	-88	0.1	112	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Dimethyl phthalate	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2			
2010/11-3	Lab	LCS	12/4/2010	Organic	Di-n-butylphthalate	n/a	=	50	µg/L	EPA 625	0.53	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Di-n-butylphthalate	n/a	=	51.8	µg/L	EPA 625	0.53	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Di-n-butylphthalate	n/a	=	104	%	EPA 625	-88	-88	1	118	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Di-n-butylphthalate	n/a	=	100	%	EPA 625	-88	-88	1	118	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Di-n-butylphthalate	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	Di-n-butylphthalate	n/a	=	50.7	µg/L	EPA 625	0.53	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Di-n-butylphthalate	n/a	=	50.9	µg/L	EPA 625	0.53	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Di-n-butylphthalate	n/a	=	102	%	EPA 625	-88	-88	1	118	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Di-n-butylphthalate	n/a	=	101	%	EPA 625	-88	-88	1	118	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Di-n-butylphthalate	n/a	=	0.4	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5			
2010/11-3	Lab	LCS	12/4/2010	Organic	Di-n-octylphthalate	n/a	=	44	µg/L	EPA 625	0.28	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Di-n-octylphthalate	n/a	=	45.3	µg/L	EPA 625	0.28	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Di-n-octylphthalate	n/a	=	91	%	EPA 625	-88	-88	6	146	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Di-n-octylphthalate	n/a	=	88	%	EPA 625	-88	-88	6	146	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Di-n-octylphthalate	n/a	=	3	%	EPA 625	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	method blank	12/4/2010	Organic	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	Di-n-octylphthalate	n/a	=	48.2	µg/L	EPA 625	0.28	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Di-n-octylphthalate	n/a	=	45.4	µg/L	EPA 625	0.28	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Di-n-octylphthalate	n/a	=	91	%	EPA 625	-88	-88	6	146	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Di-n-octylphthalate	n/a	=	96	%	EPA 625	-88	-88	6	146	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Di-n-octylphthalate	n/a	=	6	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5			
2010/11-3	Lab	LCS	12/10/2010	Organic	Fluoranthene	n/a	=	4.61	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Fluoranthene	n/a	=	3.66	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Fluoranthene	n/a	=	73	%	EPA 8270Cm	-88	-88	26	137	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Fluoranthene	n/a	=	92	%	EPA 8270Cm	-88	-88	26	137	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Fluoranthene	n/a	=	23	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-3	Lab	LCS	12/10/2010	Organic	Fluorene	n/a	=	4.03	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Fluorene	n/a	=	3.16	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Fluorene	n/a	=	63	%	EPA 8270Cm	-88	-88	59	121	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Fluorene	n/a	=	81	%	EPA 8270Cm	-88	-88	59	121	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Fluorene	n/a	=	24	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-3	Lab	LCS	12/4/2010	Organic	Hexachlorobenzene	n/a	=	44.8	µg/L	EPA 625	0.15	1			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Hexachlorobenzene	n/a	=	47.6	µg/L	EPA 625	0.15	1			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Hexachlorobenzene	n/a	=	95	%	EPA 625	-88	-88	0.1	152	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Hexachlorobenzene	n/a	=	90	%	EPA 625	-88	-88	0.1	152	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Hexachlorobenzene	n/a	=	6	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1			
2010/11-3	Lab	LCS	1/5/2011	Organic	Hexachlorobenzene	n/a	=	50.2	µg/L	EPA 625	0.15	1			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Hexachlorobenzene	n/a	=	50.3	µg/L	EPA 625	0.15	1			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Hexachlorobenzene	n/a	=	101	%	EPA 625	-88	-88	0.1	152	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Hexachlorobenzene	n/a	=	100	%	EPA 625	-88	-88	0.1	152	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Hexachlorobenzene	n/a	=	0.3	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1			
2010/11-3	Lab	LCS	12/4/2010	Organic	Hexachlorobutadiene	n/a	=	28.6	µg/L	EPA 625	0.41	1			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Hexachlorobutadiene	n/a	=	31.5	µg/L	EPA 625	0.41	1			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Hexachlorobutadiene	n/a	=	63	%	EPA 625	-88	-88	24	116	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Hexachlorobutadiene	n/a	=	57	%	EPA 625	-88	-88	24	116	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Hexachlorobutadiene	n/a	=	10	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1			
2010/11-3	Lab	LCS	1/5/2011	Organic	Hexachlorobutadiene	n/a	=	45.8	µg/L	EPA 625	0.41	1			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Hexachlorobutadiene	n/a	=	45.5	µg/L	EPA 625	0.41	1			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Hexachlorobutadiene	n/a	=	91	%	EPA 625	-88	-88	24	116	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Hexachlorobutadiene	n/a	=	92	%	EPA 625	-88	-88	24	116	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Hexachlorobutadiene	n/a	=	0.7	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1			
2010/11-3	Lab	LCS	12/4/2010	Organic	Hexachlorocyclopentadiene	n/a	=	14.7	µg/L	EPA 625	5	10			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Hexachlorocyclopentadiene	n/a	=	17	µg/L	EPA 625	5	10			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Hexachlorocyclopentadiene	n/a	=	34	%	EPA 625	-88	-88	0.1	136	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Hexachlorocyclopentadiene	n/a	=	29	%	EPA 625	-88	-88	0.1	136	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Hexachlorocyclopentadiene	n/a	=	14	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10			
2010/11-3	Lab	LCS	1/5/2011	Organic	Hexachlorocyclopentadiene	n/a	=	34.2	µg/L	EPA 625	5	10			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Hexachlorocyclopentadiene	n/a	=	36.2	µg/L	EPA 625	5	10			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Hexachlorocyclopentadiene	n/a	=	72	%	EPA 625	-88	-88	0.1	136	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Hexachlorocyclopentadiene	n/a	=	68	%	EPA 625	-88	-88	0.1	136	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Hexachlorocyclopentadiene	n/a	=	5	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10			
2010/11-3	Lab	LCS	12/4/2010	Organic	Hexachloroethane	n/a	=	30.8	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Hexachloroethane	n/a	=	34.2	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Hexachloroethane	n/a	=	68	%	EPA 625	-88	-88	40	113	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Hexachloroethane	n/a	=	62	%	EPA 625	-88	-88	40	113	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Hexachloroethane	n/a	=	10	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	LCS	1/5/2011	Organic	Hexachloroethane	n/a	=	41.7	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Hexachloroethane	n/a	=	41.8	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Hexachloroethane	n/a	=	84	%	EPA 625	-88	-88	40	113	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Hexachloroethane	n/a	=	83	%	EPA 625	-88	-88	40	113	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Hexachloroethane	n/a	=	0.2	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-3	Lab	LCS	12/10/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	3.2	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	2.47	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	49	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	64	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	26	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-3	Lab	LCS	12/4/2010	Organic	Isophorone	n/a	=	40.3	µg/L	EPA 625	0.33	1			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Isophorone	n/a	=	47.2	µg/L	EPA 625	0.33	1			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Isophorone	n/a	=	94	%	EPA 625	-88	-88	21	196	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Isophorone	n/a	=	81	%	EPA 625	-88	-88	21	196	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Isophorone	n/a	=	16	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1			
2010/11-3	Lab	LCS	1/5/2011	Organic	Isophorone	n/a	=	39.9	µg/L	EPA 625	0.33	1			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Isophorone	n/a	=	39.2	µg/L	EPA 625	0.33	1			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Isophorone	n/a	=	78	%	EPA 625	-88	-88	21	196	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Isophorone	n/a	=	80	%	EPA 625	-88	-88	21	196	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Isophorone	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1			
2010/11-3	Lab	LCS	11/29/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	4.23	µg/L	EPA 524.2	1.1	3			X
2010/11-3	Lab	LCS dup	11/29/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	4.29	µg/L	EPA 524.2	1.1	3			X
2010/11-3	Lab	LCS dup, rec	11/29/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	72	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	Lab	LCS, rec	11/29/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	70	%	EPA 524.2	-88	-88	70	130	X
2010/11-3	Lab	LCS, RPD	11/29/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	1	%	EPA 524.2	-88	-88	0	30	X
2010/11-3	Lab	method blank	11/29/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3			X
2010/11-3	MO-MEI	field duplicate	11/30/2010	Organic	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3			X
2010/11-3	Lab	LCS	12/10/2010	Organic	Naphthalene	n/a	=	3.76	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Naphthalene	n/a	=	3.04	µg/L	EPA 8270Cm	0.11	0.5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Naphthalene	n/a	=	61	%	EPA 8270Cm	-88	-88	21	133	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Naphthalene	n/a	=	75	%	EPA 8270Cm	-88	-88	21	133	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Naphthalene	n/a	=	21	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-3	Lab	LCS	12/4/2010	Organic	Nitrobenzene	n/a	=	41.4	µg/L	EPA 625	0.37	1			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	Nitrobenzene	n/a	=	49	µg/L	EPA 625	0.37	1			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	Nitrobenzene	n/a	=	98	%	EPA 625	-88	-88	35	180	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	Nitrobenzene	n/a	=	83	%	EPA 625	-88	-88	35	180	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	Nitrobenzene	n/a	=	17	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1			
2010/11-3	Lab	LCS	1/5/2011	Organic	Nitrobenzene	n/a	=	40.1	µg/L	EPA 625	0.37	1			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	Nitrobenzene	n/a	=	40.3	µg/L	EPA 625	0.37	1			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	Nitrobenzene	n/a	=	81	%	EPA 625	-88	-88	35	180	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	Nitrobenzene	n/a	=	80	%	EPA 625	-88	-88	35	180	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	Nitrobenzene	n/a	=	0.7	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1			
2010/11-3	Lab	srgt LCS	12/4/2010	Organic	Nitrobenzene-d5	n/a	=	44.6	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/4/2010	Organic	Nitrobenzene-d5	n/a	=	51.9	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/4/2010	Organic	Nitrobenzene-d5	n/a	=	104	%	EPA 625	-88	-88	34	139	
2010/11-3	Lab	srgt LCS, rec	12/4/2010	Organic	Nitrobenzene-d5	n/a	=	89	%	EPA 625	-88	-88	34	139	
2010/11-3	Lab	srgt method blank	12/4/2010	Organic	Nitrobenzene-d5	n/a	=	51.5	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/4/2010	Organic	Nitrobenzene-d5	n/a	=	103	%	EPA 625	-88	-88	34	139	
2010/11-3	Lab	srgt LCS	12/10/2010	Organic	Nitrobenzene-d5	n/a	=	4.35	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/10/2010	Organic	Nitrobenzene-d5	n/a	=	3.43	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/10/2010	Organic	Nitrobenzene-d5	n/a	=	69	%	EPA 8270Cm	-88	-88	51	143	
2010/11-3	Lab	srgt LCS, rec	12/10/2010	Organic	Nitrobenzene-d5	n/a	=	87	%	EPA 8270Cm	-88	-88	51	143	
2010/11-3	Lab	srgt method blank	12/10/2010	Organic	Nitrobenzene-d5	n/a	=	3.95	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/10/2010	Organic	Nitrobenzene-d5	n/a	=	79	%	EPA 8270Cm	-88	-88	51	143	
2010/11-3	Lab	srgt LCS	1/5/2011	Organic	Nitrobenzene-d5	n/a	=	43.3	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	1/5/2011	Organic	Nitrobenzene-d5	n/a	=	42.2	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	1/5/2011	Organic	Nitrobenzene-d5	n/a	=	84	%	EPA 625	-88	-88	34	139	
2010/11-3	Lab	srgt LCS, rec	1/5/2011	Organic	Nitrobenzene-d5	n/a	=	87	%	EPA 625	-88	-88	34	139	
2010/11-3	Lab	srgt method blank	1/5/2011	Organic	Nitrobenzene-d5	n/a	=	47.4	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt method blank, rec	1/5/2011	Organic	Nitrobenzene-d5	n/a	=	95	%	EPA 625	-88	-88	34	139	
2010/11-3	MO-MEI	srgt environ	12/10/2010	Organic	Nitrobenzene-d5	n/a	=	2.92	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	12/10/2010	Organic	Nitrobenzene-d5	n/a	=	58	%	EPA 8270Cm	-88	-88	51	143	
2010/11-3	MO-MEI	srgt environ	1/5/2011	Organic	Nitrobenzene-d5	n/a	=	37.8	µg/L	EPA 625	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	1/5/2011	Organic	Nitrobenzene-d5	n/a	=	76	%	EPA 625	-88	-88	34	139	
2010/11-3	MO-OJA	srgt environ	12/4/2010	Organic	Nitrobenzene-d5	n/a	=	51.1	µg/L	EPA 625	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/4/2010	Organic	Nitrobenzene-d5	n/a	=	102	%	EPA 625	-88	-88	34	139	
2010/11-3	MO-OJA	srgt environ	12/10/2010	Organic	Nitrobenzene-d5	n/a	=	3.38	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/10/2010	Organic	Nitrobenzene-d5	n/a	=	68	%	EPA 8270Cm	-88	-88	51	143	
2010/11-3	Lab	LCS	12/4/2010	Organic	N-Nitrosodimethylamine	n/a	=	21.1	µg/L	EPA 625	0.36	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	N-Nitrosodimethylamine	n/a	=	24.4	µg/L	EPA 625	0.36	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	N-Nitrosodimethylamine	n/a	=	49	%	EPA 625	-88	-88	27	78	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	N-Nitrosodimethylamine	n/a	=	42	%	EPA 625	-88	-88	27	78	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	N-Nitrosodimethylamine	n/a	=	14	%	EPA 625	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	method blank	12/4/2010	Organic	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	N-Nitrosodimethylamine	n/a	=	20.7	µg/L	EPA 625	0.36	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	N-Nitrosodimethylamine	n/a	=	20.3	µg/L	EPA 625	0.36	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	N-Nitrosodimethylamine	n/a	=	41	%	EPA 625	-88	-88	27	78	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	N-Nitrosodimethylamine	n/a	=	41	%	EPA 625	-88	-88	27	78	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	N-Nitrosodimethylamine	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5			
2010/11-3	Lab	LCS	12/4/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	42.4	µg/L	EPA 625	0.41	5			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	51.2	µg/L	EPA 625	0.41	5			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	102	%	EPA 625	-88	-88	0.1	230	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	85	%	EPA 625	-88	-88	0.1	230	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	N-Nitrosodi-N-propylamine	n/a	=	19	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5			
2010/11-3	Lab	LCS	1/5/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	41.4	µg/L	EPA 625	0.41	5			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	41.5	µg/L	EPA 625	0.41	5			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	83	%	EPA 625	-88	-88	0.1	230	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	83	%	EPA 625	-88	-88	0.1	230	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	0.02	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5			
2010/11-3	Lab	LCS	12/4/2010	Organic	N-Nitrosodiphenylamine	n/a	=	41.1	µg/L	EPA 625	0.23	1			
2010/11-3	Lab	LCS dup	12/4/2010	Organic	N-Nitrosodiphenylamine	n/a	=	44.3	µg/L	EPA 625	0.23	1			
2010/11-3	Lab	LCS dup, rec	12/4/2010	Organic	N-Nitrosodiphenylamine	n/a	=	89	%	EPA 625	-88	-88	48	129	
2010/11-3	Lab	LCS, rec	12/4/2010	Organic	N-Nitrosodiphenylamine	n/a	=	82	%	EPA 625	-88	-88	48	129	
2010/11-3	Lab	LCS, RPD	12/4/2010	Organic	N-Nitrosodiphenylamine	n/a	=	8	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	12/4/2010	Organic	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1			
2010/11-3	Lab	LCS	1/5/2011	Organic	N-Nitrosodiphenylamine	n/a	=	38.8	µg/L	EPA 625	0.23	1			
2010/11-3	Lab	LCS dup	1/5/2011	Organic	N-Nitrosodiphenylamine	n/a	=	39.3	µg/L	EPA 625	0.23	1			
2010/11-3	Lab	LCS dup, rec	1/5/2011	Organic	N-Nitrosodiphenylamine	n/a	=	79	%	EPA 625	-88	-88	48	129	
2010/11-3	Lab	LCS, rec	1/5/2011	Organic	N-Nitrosodiphenylamine	n/a	=	78	%	EPA 625	-88	-88	48	129	
2010/11-3	Lab	LCS, RPD	1/5/2011	Organic	N-Nitrosodiphenylamine	n/a	=	1	%	EPA 625	-88	-88	0	30	
2010/11-3	Lab	method blank	1/5/2011	Organic	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1			
2010/11-3	Lab	srgt LCS	12/18/2010	Organic	Perylene-d12	n/a	=	4.68	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt LCS, rec	12/18/2010	Organic	Perylene-d12	n/a	=	94	%	EPA 525.2	-88	-88	48	141	
2010/11-3	Lab	srgt method blank	12/18/2010	Organic	Perylene-d12	n/a	=	4.72	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/18/2010	Organic	Perylene-d12	n/a	=	94	%	EPA 525.2	-88	-88	48	141	
2010/11-3	MO-MEI	srgt environ	12/18/2010	Organic	Perylene-d12	n/a	=	4.14	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	12/18/2010	Organic	Perylene-d12	n/a	=	78	%	EPA 525.2	-88	-88	48	141	
2010/11-3	MO-OJA	srgt environ	12/18/2010	Organic	Perylene-d12	n/a	=	3.35	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/18/2010	Organic	Perylene-d12	n/a	=	67	%	EPA 525.2	-88	-88	48	141	
2010/11-3	MO-OJA	srgt matrix spike	12/18/2010	Organic	Perylene-d12	n/a	=	3.66	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-OJA	srgt matrix spike, rec	12/18/2010	Organic	Perylene-d12	n/a	=	73	%	EPA 525.2	-88	-88	48	141	
2010/11-3	Lab	LCS	12/10/2010	Organic	Phenanthrene	n/a	=	4.33	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Phenanthrene	n/a	=	3.43	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Phenanthrene	n/a	=	69	%	EPA 8270Cm	-88	-88	54	120	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Phenanthrene	n/a	=	87	%	EPA 8270Cm	-88	-88	54	120	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Phenanthrene	n/a	=	23	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS	12/15/2010	Organic	Phenol	n/a	=	1.73	µg/L	EPA 8270Cm	0.35	1			
2010/11-3	Lab	LCS dup	12/15/2010	Organic	Phenol	n/a	=	1.32	µg/L	EPA 8270Cm	0.35	1			
2010/11-3	Lab	LCS dup, rec	12/15/2010	Organic	Phenol	n/a	=	26	%	EPA 8270Cm	-88	-88	14	40	
2010/11-3	Lab	LCS, rec	12/15/2010	Organic	Phenol	n/a	=	35	%	EPA 8270Cm	-88	-88	14	40	
2010/11-3	Lab	LCS, RPD	12/15/2010	Organic	Phenol	n/a	=	27	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/15/2010	Organic	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1			
2010/11-3	Lab	srgt LCS	12/4/2010	Organic	Phenol-d5	n/a	=	40.6	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/4/2010	Organic	Phenol-d5	n/a	=	44.6	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/4/2010	Organic	Phenol-d5	n/a	=	45	%	EPA 625	-88	-88	2	70	
2010/11-3	Lab	srgt LCS, rec	12/4/2010	Organic	Phenol-d5	n/a	=	41	%	EPA 625	-88	-88	2	70	
2010/11-3	Lab	srgt method blank	12/4/2010	Organic	Phenol-d5	n/a	=	43.5	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/4/2010	Organic	Phenol-d5	n/a	=	43	%	EPA 625	-88	-88	2	70	
2010/11-3	Lab	srgt LCS	12/15/2010	Organic	Phenol-d5	n/a	=	3.38	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/15/2010	Organic	Phenol-d5	n/a	=	2.46	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/15/2010	Organic	Phenol-d5	n/a	=	25	%	EPA 8270Cm	-88	-88	13	58	
2010/11-3	Lab	srgt LCS, rec	12/15/2010	Organic	Phenol-d5	n/a	=	34	%	EPA 8270Cm	-88	-88	13	58	
2010/11-3	Lab	srgt method blank	12/15/2010	Organic	Phenol-d5	n/a	=	2.76	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/15/2010	Organic	Phenol-d5	n/a	=	28	%	EPA 8270Cm	-88	-88	13	58	
2010/11-3	Lab	srgt LCS	1/5/2011	Organic	Phenol-d5	n/a	=	30.6	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	1/5/2011	Organic	Phenol-d5	n/a	=	30	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	1/5/2011	Organic	Phenol-d5	n/a	=	30	%	EPA 625	-88	-88	2	70	
2010/11-3	Lab	srgt LCS, rec	1/5/2011	Organic	Phenol-d5	n/a	=	31	%	EPA 625	-88	-88	2	70	
2010/11-3	Lab	srgt method blank	1/5/2011	Organic	Phenol-d5	n/a	=	94.2	µg/L	EPA 625	-88	-88			GN
2010/11-3	Lab	srgt method blank, rec	1/5/2011	Organic	Phenol-d5	n/a	=	94	%	EPA 625	-88	-88	2	70	GN
2010/11-3	MO-MEI	srgt environ	12/15/2010	Organic	Phenol-d5	n/a	=	3.22	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	12/15/2010	Organic	Phenol-d5	n/a	=	32	%	EPA 8270Cm	-88	-88	13	58	
2010/11-3	MO-MEI	srgt environ	1/5/2011	Organic	Phenol-d5	n/a	=	27.4	µg/L	EPA 625	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	1/5/2011	Organic	Phenol-d5	n/a	=	27	%	EPA 625	-88	-88	2	70	
2010/11-3	MO-OJA	srgt environ	12/4/2010	Organic	Phenol-d5	n/a	=	40.4	µg/L	EPA 625	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/4/2010	Organic	Phenol-d5	n/a	=	40	%	EPA 625	-88	-88	2	70	
2010/11-3	MO-OJA	srgt environ	12/15/2010	Organic	Phenol-d5	n/a	=	3.04	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/15/2010	Organic	Phenol-d5	n/a	=	30	%	EPA 8270Cm	-88	-88	13	58	
2010/11-3	Lab	srgt LCS	12/4/2010	Organic	p-Terphenyl-d14	n/a	=	53.5	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/4/2010	Organic	p-Terphenyl-d14	n/a	=	55.5	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/4/2010	Organic	p-Terphenyl-d14	n/a	=	111	%	EPA 625	-88	-88	6	145	
2010/11-3	Lab	srgt LCS, rec	12/4/2010	Organic	p-Terphenyl-d14	n/a	=	107	%	EPA 625	-88	-88	6	145	
2010/11-3	Lab	srgt method blank	12/4/2010	Organic	p-Terphenyl-d14	n/a	=	49	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/4/2010	Organic	p-Terphenyl-d14	n/a	=	98	%	EPA 625	-88	-88	6	145	
2010/11-3	Lab	srgt LCS	12/10/2010	Organic	p-Terphenyl-d14	n/a	=	3.64	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup	12/10/2010	Organic	p-Terphenyl-d14	n/a	=	2.73	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	12/10/2010	Organic	p-Terphenyl-d14	n/a	=	55	%	EPA 8270Cm	-88	-88	19	134	
2010/11-3	Lab	srgt LCS, rec	12/10/2010	Organic	p-Terphenyl-d14	n/a	=	73	%	EPA 8270Cm	-88	-88	19	134	
2010/11-3	Lab	srgt method blank	12/10/2010	Organic	p-Terphenyl-d14	n/a	=	3.47	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/10/2010	Organic	p-Terphenyl-d14	n/a	=	69	%	EPA 8270Cm	-88	-88	19	134	
2010/11-3	Lab	srgt LCS	1/5/2011	Organic	p-Terphenyl-d14	n/a	=	55.2	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup	1/5/2011	Organic	p-Terphenyl-d14	n/a	=	57.1	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	1/5/2011	Organic	p-Terphenyl-d14	n/a	=	114	%	EPA 625	-88	-88	6	145	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	srgt LCS, rec	1/5/2011	Organic	p-Terphenyl-d14	n/a	=	110	%	EPA 625	-88	-88	6	145	
2010/11-3	Lab	srgt method blank	1/5/2011	Organic	p-Terphenyl-d14	n/a	=	53.1	µg/L	EPA 625	-88	-88			
2010/11-3	Lab	srgt method blank, rec	1/5/2011	Organic	p-Terphenyl-d14	n/a	=	106	%	EPA 625	-88	-88	6	145	
2010/11-3	MO-MEI	srgt environ	12/10/2010	Organic	p-Terphenyl-d14	n/a	=	2.16	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	12/10/2010	Organic	p-Terphenyl-d14	n/a	=	43	%	EPA 8270Cm	-88	-88	19	134	
2010/11-3	MO-MEI	srgt environ	1/5/2011	Organic	p-Terphenyl-d14	n/a	=	45.1	µg/L	EPA 625	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	1/5/2011	Organic	p-Terphenyl-d14	n/a	=	90	%	EPA 625	-88	-88	6	145	
2010/11-3	MO-OJA	srgt environ	12/4/2010	Organic	p-Terphenyl-d14	n/a	=	51.6	µg/L	EPA 625	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/4/2010	Organic	p-Terphenyl-d14	n/a	=	103	%	EPA 625	-88	-88	6	145	
2010/11-3	MO-OJA	srgt environ	12/10/2010	Organic	p-Terphenyl-d14	n/a	=	3.01	µg/L	EPA 8270Cm	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/10/2010	Organic	p-Terphenyl-d14	n/a	=	60	%	EPA 8270Cm	-88	-88	19	134	
2010/11-3	Lab	LCS	12/10/2010	Organic	Pyrene	n/a	=	4.5	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-3	Lab	LCS dup	12/10/2010	Organic	Pyrene	n/a	=	3.65	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-3	Lab	LCS dup, rec	12/10/2010	Organic	Pyrene	n/a	=	73	%	EPA 8270Cm	-88	-88	52	115	
2010/11-3	Lab	LCS, rec	12/10/2010	Organic	Pyrene	n/a	=	90	%	EPA 8270Cm	-88	-88	52	115	
2010/11-3	Lab	LCS, RPD	12/10/2010	Organic	Pyrene	n/a	=	21	%	EPA 8270Cm	-88	-88	0	30	
2010/11-3	Lab	method blank	12/10/2010	Organic	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-3	Lab	srgt LCS	11/30/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.429	µg/L	EPA 608	-88	-88			
2010/11-3	Lab	srgt LCS dup	11/30/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.428	µg/L	EPA 608	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	11/30/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	86	%	EPA 608	-88	-88	26	131	
2010/11-3	Lab	srgt LCS, rec	11/30/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	86	%	EPA 608	-88	-88	26	131	
2010/11-3	Lab	srgt method blank	11/30/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.401	µg/L	EPA 608	-88	-88			
2010/11-3	Lab	srgt method blank, rec	11/30/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	80	%	EPA 608	-88	-88	26	131	
2010/11-3	MO-MEI	srgt environ	11/30/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0503	µg/L	EPA 608	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	11/30/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	50	%	EPA 608	-88	-88	26	131	
2010/11-3	MO-OJA	srgt environ	11/30/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0586	µg/L	EPA 608	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	11/30/2010	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	59	%	EPA 608	-88	-88	26	131	
2010/11-3	Lab	srgt LCS	12/15/2010	Organic	Triphenylphosphate	n/a	=	0.466	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt LCS, rec	12/15/2010	Organic	Triphenylphosphate	n/a	=	93	%	EPA 525.2	-88	-88	71	150	
2010/11-3	Lab	srgt matrix spike	12/15/2010	Organic	Triphenylphosphate	n/a	=	0.492	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt matrix spike dup	12/15/2010	Organic	Triphenylphosphate	n/a	=	0.486	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt matrix spike dup, rec	12/15/2010	Organic	Triphenylphosphate	n/a	=	97	%	EPA 525.2	-88	-88	71	150	
2010/11-3	Lab	srgt matrix spike, rec	12/15/2010	Organic	Triphenylphosphate	n/a	=	98	%	EPA 525.2	-88	-88	71	150	
2010/11-3	Lab	srgt method blank	12/15/2010	Organic	Triphenylphosphate	n/a	=	0.535	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/15/2010	Organic	Triphenylphosphate	n/a	=	107	%	EPA 525.2	-88	-88	71	150	
2010/11-3	Lab	srgt LCS	12/18/2010	Organic	Triphenylphosphate	n/a	=	4.73	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt LCS, rec	12/18/2010	Organic	Triphenylphosphate	n/a	=	95	%	EPA 525.2	-88	-88	71	150	
2010/11-3	Lab	srgt method blank	12/18/2010	Organic	Triphenylphosphate	n/a	=	5.04	µg/L	EPA 525.2	-88	-88			
2010/11-3	Lab	srgt method blank, rec	12/18/2010	Organic	Triphenylphosphate	n/a	=	101	%	EPA 525.2	-88	-88	71	150	
2010/11-3	MO-MEI	srgt environ	12/15/2010	Organic	Triphenylphosphate	n/a	=	0.497	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	12/15/2010	Organic	Triphenylphosphate	n/a	=	99	%	EPA 525.2	-88	-88	71	150	
2010/11-3	MO-MEI	srgt environ	12/18/2010	Organic	Triphenylphosphate	n/a	=	4.67	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	12/18/2010	Organic	Triphenylphosphate	n/a	=	88	%	EPA 525.2	-88	-88	71	150	
2010/11-3	MO-OJA	srgt environ	12/15/2010	Organic	Triphenylphosphate	n/a	=	0.534	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/15/2010	Organic	Triphenylphosphate	n/a	=	107	%	EPA 525.2	-88	-88	71	150	
2010/11-3	MO-OJA	srgt environ	12/18/2010	Organic	Triphenylphosphate	n/a	=	4.78	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	12/18/2010	Organic	Triphenylphosphate	n/a	=	96	%	EPA 525.2	-88	-88	71	150	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	MO-OJA	srgt matrix spike	12/18/2010	Organic	Triphenylphosphate	n/a	=	4.79	µg/L	EPA 525.2	-88	-88			
2010/11-3	MO-OJA	srgt matrix spike, rec	12/18/2010	Organic	Triphenylphosphate	n/a	=	96	%	EPA 525.2	-88	-88	71	150	
2010/11-3	Lab	srgt LCS	11/30/2010	PCB	PCB 209	n/a	=	0.457	µg/L	EPA 608	-88	-88			
2010/11-3	Lab	srgt LCS dup	11/30/2010	PCB	PCB 209	n/a	=	0.45	µg/L	EPA 608	-88	-88			
2010/11-3	Lab	srgt LCS dup, rec	11/30/2010	PCB	PCB 209	n/a	=	90	%	EPA 608	-88	-88	0.1	154	
2010/11-3	Lab	srgt LCS, rec	11/30/2010	PCB	PCB 209	n/a	=	91	%	EPA 608	-88	-88	0.1	154	
2010/11-3	Lab	srgt method blank	11/30/2010	PCB	PCB 209	n/a	=	0.432	µg/L	EPA 608	-88	-88			
2010/11-3	Lab	srgt method blank, rec	11/30/2010	PCB	PCB 209	n/a	=	86	%	EPA 608	-88	-88	0.1	154	
2010/11-3	MO-MEI	srgt environ	11/30/2010	PCB	PCB 209	n/a	=	0.0326	µg/L	EPA 608	-88	-88			
2010/11-3	MO-MEI	srgt environ, rec	11/30/2010	PCB	PCB 209	n/a	=	33	%	EPA 608	-88	-88	0.1	154	
2010/11-3	MO-OJA	srgt environ	11/30/2010	PCB	PCB 209	n/a	=	0.0473	µg/L	EPA 608	-88	-88			
2010/11-3	MO-OJA	srgt environ, rec	11/30/2010	PCB	PCB 209	n/a	=	47	%	EPA 608	-88	-88	0.1	154	
2010/11-3	Lab	method blank	11/30/2010	PCB	PCB Aroclor 1016	n/a	<	0.25	µg/L	EPA 608	0.25	2.5			
2010/11-3	Lab	method blank	11/30/2010	PCB	PCB Aroclor 1221	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			
2010/11-3	Lab	method blank	11/30/2010	PCB	PCB Aroclor 1232	n/a	<	0.75	µg/L	EPA 608	0.75	2.5			
2010/11-3	Lab	method blank	11/30/2010	PCB	PCB Aroclor 1242	n/a	<	0.35	µg/L	EPA 608	0.35	2.5			
2010/11-3	Lab	method blank	11/30/2010	PCB	PCB Aroclor 1248	n/a	<	0.3	µg/L	EPA 608	0.3	2.5			
2010/11-3	Lab	method blank	11/30/2010	PCB	PCB Aroclor 1254	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			
2010/11-3	Lab	method blank	11/30/2010	PCB	PCB Aroclor 1260	n/a	<	0.2	µg/L	EPA 608	0.2	2.5			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	2,4,5-T	n/a	=	1.6	µg/L	EPA 515.3	0.05	0.2			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	2,4,5-T	n/a	=	1.51	µg/L	EPA 515.3	0.05	0.2			
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	2,4,5-T	n/a	=	76	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	2,4,5-T	n/a	=	80	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	2,4,5-T	n/a	=	6	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	2,4,5-T	n/a	=	1.48	µg/L	EPA 515.3	0.05	0.2			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	2,4,5-T	n/a	=	74	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	2,4,5-TP	n/a	=	1.78	µg/L	EPA 515.3	0.02	0.2			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	2,4,5-TP	n/a	=	1.68	µg/L	EPA 515.3	0.02	0.2			
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	2,4,5-TP	n/a	=	84	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	2,4,5-TP	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	2,4,5-TP	n/a	=	6	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	2,4,5-TP	n/a	=	1.56	µg/L	EPA 515.3	0.02	0.2			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	2,4,5-TP	n/a	=	78	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	2,4-D	n/a	=	4.22	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	2,4-D	n/a	=	4.22	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	2,4-D	n/a	=	105	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	2,4-D	n/a	=	105	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	2,4-D	n/a	=	0	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	2,4-D	n/a	=	4.38	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	2,4-D	n/a	=	110	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	2,4-DB	n/a	=	7.34	µg/L	EPA 515.3	0.42	2			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	2,4-DB	n/a	=	6.04	µg/L	EPA 515.3	0.42	2			
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	2,4-DB	n/a	=	76	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	2,4-DB	n/a	=	92	%	EPA 515.3	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	2,4-DB	n/a	=	19	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	2,4-DB	n/a	=	8.1	µg/L	EPA 515.3	0.42	2			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	2,4-DB	n/a	=	101	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	2.73	µg/L	EPA 515.3	0.08	1			GB
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	2.52	µg/L	EPA 515.3	0.08	1			GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	63	%	EPA 515.3	-88	-88	70	130	GB
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	68	%	EPA 515.3	-88	-88	70	130	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	8	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	2.78	µg/L	EPA 515.3	0.08	1			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	70	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	4,4'-DDD	n/a	=	0.508	µg/L	EPA 608	0.015	0.25			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	4,4'-DDD	n/a	=	0.494	µg/L	EPA 608	0.015	0.25			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	4,4'-DDD	n/a	=	99	%	EPA 608	-88	-88	30	141	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	4,4'-DDD	n/a	=	102	%	EPA 608	-88	-88	30	141	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	4,4'-DDD	n/a	=	3	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	4,4'-DDD	n/a	<	0.015	µg/L	EPA 608	0.015	0.25			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	4,4'-DDE	n/a	=	0.521	µg/L	EPA 608	0.012	0.25			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	4,4'-DDE	n/a	=	0.507	µg/L	EPA 608	0.012	0.25			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	4,4'-DDE	n/a	=	101	%	EPA 608	-88	-88	30	145	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	4,4'-DDE	n/a	=	104	%	EPA 608	-88	-88	30	145	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	4,4'-DDE	n/a	=	3	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	4,4'-DDE	n/a	<	0.012	µg/L	EPA 608	0.012	0.25			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	4,4'-DDT	n/a	=	0.576	µg/L	EPA 608	0.016	0.05			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	4,4'-DDT	n/a	=	0.562	µg/L	EPA 608	0.016	0.05			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	4,4'-DDT	n/a	=	112	%	EPA 608	-88	-88	25	160	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	4,4'-DDT	n/a	=	115	%	EPA 608	-88	-88	25	160	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	4,4'-DDT	n/a	=	3	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	4,4'-DDT	n/a	<	0.016	µg/L	EPA 608	0.016	0.05			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	Acifluorfen	n/a	=	1.57	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	Acifluorfen	n/a	=	1.5	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	Acifluorfen	n/a	=	75	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	Acifluorfen	n/a	=	78	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	Acifluorfen	n/a	=	5	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	Acifluorfen	n/a	=	1.58	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	Acifluorfen	n/a	=	79	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Alachlor	n/a	=	4.6	µg/L	EPA 525.2	0.07	0.1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Alachlor	n/a	=	92	%	EPA 525.2	-88	-88	58	164	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Alachlor	n/a	=	5.36	µg/L	EPA 525.2	0.07	0.1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Alachlor	n/a	=	107	%	EPA 525.2	-88	-88	58	177	
2010/11-3	Lab	LCS	11/30/2010	Pesticide	Aldrin	n/a	=	0.484	µg/L	EPA 608	0.0075	0.025			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	Aldrin	n/a	=	0.479	µg/L	EPA 608	0.0075	0.025			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	Aldrin	n/a	=	96	%	EPA 608	-88	-88	42	122	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	Aldrin	n/a	=	97	%	EPA 608	-88	-88	42	122	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	Aldrin	n/a	=	1	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Aldrin	n/a	<	0.0075	µg/L	EPA 608	0.0075	0.025			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	alpha-BHC	n/a	=	0.495	µg/L	EPA 608	0.009	0.05			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	alpha-BHC	n/a	=	0.486	µg/L	EPA 608	0.009	0.05			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	alpha-BHC	n/a	=	97	%	EPA 608	-88	-88	37	134	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	alpha-BHC	n/a	=	99	%	EPA 608	-88	-88	37	134	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	alpha-BHC	n/a	=	2	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	alpha-BHC	n/a	<	0.009	µg/L	EPA 608	0.009	0.05			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Atrazine	n/a	=	5.22	µg/L	EPA 525.2	0.047	0.1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Atrazine	n/a	=	104	%	EPA 525.2	-88	-88	68	133	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Atrazine	n/a	=	5.25	µg/L	EPA 525.2	0.047	0.1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Atrazine	n/a	=	105	%	EPA 525.2	-88	-88	53	142	
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Azinphos methyl	n/a	=	0.248	µg/L	EPA 525.2	0.0055	0.01			GB
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Azinphos methyl	n/a	=	0.117	µg/L	EPA 525.2	0.0055	0.01			GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Azinphos methyl	n/a	=	233	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Azinphos methyl	n/a	=	495	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Azinphos methyl	n/a	=	72	%	EPA 525.2	-88	-88	0	25	IL
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Azinphos methyl	n/a	=	0.0222	µg/L	EPA 525.2	0.0055	0.01			EUM
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Azinphos methyl	n/a	=	44	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	Bentazon	n/a	=	9.81	µg/L	EPA 515.3	0.23	2			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	Bentazon	n/a	=	7.83	µg/L	EPA 515.3	0.23	2			
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	Bentazon	n/a	=	98	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	Bentazon	n/a	=	123	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	Bentazon	n/a	=	22	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	Bentazon	n/a	=	10.1	µg/L	EPA 515.3	0.23	2			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	Bentazon	n/a	=	126	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	beta-BHC	n/a	=	0.516	µg/L	EPA 608	0.016	0.025			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	beta-BHC	n/a	=	0.497	µg/L	EPA 608	0.016	0.025			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	beta-BHC	n/a	=	99	%	EPA 608	-88	-88	14	147	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	beta-BHC	n/a	=	103	%	EPA 608	-88	-88	14	147	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	beta-BHC	n/a	=	4	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	beta-BHC	n/a	<	0.016	µg/L	EPA 608	0.016	0.025			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Bolstar	n/a	=	0.0367	µg/L	EPA 525.2	0.0046	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Bolstar	n/a	=	0.0337	µg/L	EPA 525.2	0.0046	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Bolstar	n/a	=	67	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Bolstar	n/a	=	73	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Bolstar	n/a	=	8	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Bolstar	n/a	=	0.0379	µg/L	EPA 525.2	0.0046	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Bolstar	n/a	=	76	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Bromacil	n/a	=	3.96	µg/L	EPA 525.2	0.9	1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Bromacil	n/a	=	79	%	EPA 525.2	-88	-88	43	177	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Bromacil	n/a	=	5.19	µg/L	EPA 525.2	0.9	1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Bromacil	n/a	=	104	%	EPA 525.2	-88	-88	71	182	
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Butachlor	n/a	=	4.36	µg/L	EPA 525.2	0.1	0.2			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Butachlor	n/a	=	87	%	EPA 525.2	-88	-88	55	178	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Butachlor	n/a	=	5.4	µg/L	EPA 525.2	0.1	0.2			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Butachlor	n/a	=	108	%	EPA 525.2	-88	-88	67	181	
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Captan	n/a	=	3.34	µg/L	EPA 525.2	0.86	1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Captan	n/a	=	67	%	EPA 525.2	-88	-88	20	215	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Captan	n/a	=	4.24	µg/L	EPA 525.2	0.86	1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Captan	n/a	=	85	%	EPA 525.2	-88	-88	45	182	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Chlordane (technical)	n/a	<	0.4	µg/L	EPA 608	0.4	0.5			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Chloropropham	n/a	=	5.2	µg/L	EPA 525.2	0.01	0.1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Chloropropham	n/a	=	104	%	EPA 525.2	-88	-88	74	133	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Chloropropham	n/a	=	5.68	µg/L	EPA 525.2	0.01	0.1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Chloropropham	n/a	=	114	%	EPA 525.2	-88	-88	76	137	
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Chlorpyrifos	n/a	=	0.235	µg/L	EPA 525.2	0.0069	0.01			GB
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Chlorpyrifos	n/a	=	0.187	µg/L	EPA 525.2	0.0069	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Chlorpyrifos	n/a	=	82	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Chlorpyrifos	n/a	=	180	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Chlorpyrifos	n/a	=	23	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Chlorpyrifos	n/a	=	0.0531	µg/L	EPA 525.2	0.0069	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Chlorpyrifos	n/a	=	106	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Coumaphos	n/a	=	0.0253	µg/L	EPA 525.2	0.0051	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Coumaphos	n/a	=	0.0214	µg/L	EPA 525.2	0.0051	0.01			GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Coumaphos	n/a	=	43	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Coumaphos	n/a	=	51	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Coumaphos	n/a	=	17	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Coumaphos	n/a	=	0.0419	µg/L	EPA 525.2	0.0051	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Coumaphos	n/a	=	84	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Cyanazine	n/a	=	4.61	µg/L	EPA 525.2	0.02	0.1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Cyanazine	n/a	=	92	%	EPA 525.2	-88	-88	69	131	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Cyanazine	n/a	=	2.9	µg/L	EPA 525.2	0.02	0.1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Cyanazine	n/a	=	58	%	EPA 525.2	-88	-88	26	145	
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	Dalapon	n/a	=	3.31	µg/L	EPA 515.3	0.04	0.4			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	Dalapon	n/a	=	3.17	µg/L	EPA 515.3	0.04	0.4			
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	Dalapon	n/a	=	79	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	Dalapon	n/a	=	83	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	Dalapon	n/a	=	4	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	Dalapon	n/a	=	3.16	µg/L	EPA 515.3	0.04	0.4			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	Dalapon	n/a	=	79	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.51	µg/L	EPA 515.3	0.02	0.1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.27	µg/L	EPA 515.3	0.02	0.1			GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	DCPA (Dacthal)	n/a	=	63	%	EPA 515.3	-88	-88	70	130	GB
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	DCPA (Dacthal)	n/a	=	75	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	DCPA (Dacthal)	n/a	=	17	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	DCPA (Dacthal)	n/a	=	1.44	µg/L	EPA 515.3	0.02	0.1			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	DCPA (Dacthal)	n/a	=	72	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	delta-BHC	n/a	=	0.485	µg/L	EPA 608	0.012	0.025			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	delta-BHC	n/a	=	0.469	µg/L	EPA 608	0.012	0.025			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	delta-BHC	n/a	=	94	%	EPA 608	-88	-88	19	140	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	delta-BHC	n/a	=	97	%	EPA 608	-88	-88	19	140	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	delta-BHC	n/a	=	3	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	delta-BHC	n/a	<	0.012	µg/L	EPA 608	0.012	0.025			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Demeton-O	n/a	=	0.046	µg/L	EPA 525.2	0.01	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Demeton-O	n/a	=	0.0427	µg/L	EPA 525.2	0.01	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Demeton-O	n/a	=	85	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Demeton-O	n/a	=	92	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Demeton-O	n/a	=	8	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Demeton-O	n/a	=	0.0534	µg/L	EPA 525.2	0.01	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Demeton-O	n/a	=	107	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Demeton-S	n/a	=	0.0354	µg/L	EPA 525.2	0.01	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Demeton-S	n/a	=	0.0349	µg/L	EPA 525.2	0.01	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Demeton-S	n/a	=	70	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Demeton-S	n/a	=	71	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Demeton-S	n/a	=	1	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Demeton-S	n/a	=	0.045	µg/L	EPA 525.2	0.01	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Demeton-S	n/a	=	90	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Diazinon	n/a	=	1.22	µg/L	EPA 525.2	0.0052	0.01			GB
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Diazinon	n/a	=	0.917	µg/L	EPA 525.2	0.0052	0.01			R
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Diazinon	n/a	=	-112	%	EPA 525.2	-88	-88	50	150	R
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Diazinon	n/a	=	495	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Diazinon	n/a	=	28	%	EPA 525.2	-88	-88	0	25	IL
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Diazinon	n/a	=	0.0555	µg/L	EPA 525.2	0.0052	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Diazinon	n/a	=	111	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	Dicamba	n/a	=	3.62	µg/L	EPA 515.3	0.08	0.6			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	Dicamba	n/a	=	3.45	µg/L	EPA 515.3	0.08	0.6			
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	Dicamba	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	Dicamba	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	Dicamba	n/a	=	5	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	Dicamba	n/a	=	3.51	µg/L	EPA 515.3	0.08	0.6			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	Dicamba	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	Dichlorprop	n/a	=	3.69	µg/L	EPA 515.3	0.06	0.3			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	Dichlorprop	n/a	=	3.6	µg/L	EPA 515.3	0.06	0.3			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	Dichlorprop	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	Dichlorprop	n/a	=	92	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	Dichlorprop	n/a	=	2	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	Dichlorprop	n/a	=	3.4	µg/L	EPA 515.3	0.06	0.3			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	Dichlorprop	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Dichlorvos	n/a	=	0.0439	µg/L	EPA 525.2	0.0029	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Dichlorvos	n/a	=	0.0432	µg/L	EPA 525.2	0.0029	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Dichlorvos	n/a	=	86	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Dichlorvos	n/a	=	88	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Dichlorvos	n/a	=	2	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Dichlorvos	n/a	=	0.0434	µg/L	EPA 525.2	0.0029	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Dichlorvos	n/a	=	87	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	Dieldrin	n/a	=	0.529	µg/L	EPA 608	0.01	0.05			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	Dieldrin	n/a	=	0.518	µg/L	EPA 608	0.01	0.05			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	Dieldrin	n/a	=	104	%	EPA 608	-88	-88	36	146	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	Dieldrin	n/a	=	106	%	EPA 608	-88	-88	36	146	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	Dieldrin	n/a	=	2	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Dieldrin	n/a	<	0.01	µg/L	EPA 608	0.01	0.05			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Dimethoate	n/a	=	1.37	µg/L	EPA 525.2	0.0062	0.01			GB
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Dimethoate	n/a	=	0.963	µg/L	EPA 525.2	0.0062	0.01			GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Dimethoate	n/a	=	1150	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Dimethoate	n/a	=	1960	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Dimethoate	n/a	=	35	%	EPA 525.2	-88	-88	0	25	IL
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Dimethoate	n/a	=	0.0525	µg/L	EPA 525.2	0.0062	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Dimethoate	n/a	=	105	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	Dinoseb	n/a	=	1.71	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	Dinoseb	n/a	=	1.55	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	Dinoseb	n/a	=	77	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	Dinoseb	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	Dinoseb	n/a	=	10	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	Dinoseb	n/a	=	1.63	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	Dinoseb	n/a	=	81	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Diphenamid	n/a	=	5.06	µg/L	EPA 525.2	0.02	0.1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Diphenamid	n/a	=	101	%	EPA 525.2	-88	-88	82	144	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Diphenamid	n/a	=	5.25	µg/L	EPA 525.2	0.02	0.1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Diphenamid	n/a	=	105	%	EPA 525.2	-88	-88	86	130	
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Disulfoton	n/a	=	0.924	µg/L	EPA 525.2	0.01	0.01			R
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Disulfoton	n/a	=	0.758	µg/L	EPA 525.2	0.01	0.01			R
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Disulfoton	n/a	=	-433	%	EPA 525.2	-88	-88	50	150	R
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Disulfoton	n/a	=	-100	%	EPA 525.2	-88	-88	50	150	R
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Disulfoton	n/a	=	20	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Disulfoton	n/a	=	0.0485	µg/L	EPA 525.2	0.01	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Disulfoton	n/a	=	97	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	Endosulfan I	n/a	=	0.479	µg/L	EPA 608	0.0085	0.1			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	Endosulfan I	n/a	=	0.469	µg/L	EPA 608	0.0085	0.1			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	Endosulfan I	n/a	=	94	%	EPA 608	-88	-88	45	153	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	Endosulfan I	n/a	=	96	%	EPA 608	-88	-88	45	153	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	Endosulfan I	n/a	=	2	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Endosulfan I	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.1			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	Endosulfan II	n/a	=	0.48	µg/L	EPA 608	0.0095	0.05			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	Endosulfan II	n/a	=	0.468	µg/L	EPA 608	0.0095	0.05			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	Endosulfan II	n/a	=	94	%	EPA 608	-88	-88	2	202	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	Endosulfan II	n/a	=	96	%	EPA 608	-88	-88	2	202	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	Endosulfan II	n/a	=	3	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Endosulfan II	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	Endosulfan sulfate	n/a	=	0.527	µg/L	EPA 608	0.04	0.25			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	Endosulfan sulfate	n/a	=	0.507	µg/L	EPA 608	0.04	0.25			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	Endosulfan sulfate	n/a	=	101	%	EPA 608	-88	-88	26	144	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	Endosulfan sulfate	n/a	=	105	%	EPA 608	-88	-88	26	144	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	Endosulfan sulfate	n/a	=	4	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Endosulfan sulfate	n/a	<	0.04	µg/L	EPA 608	0.04	0.25			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	Endrin	n/a	=	0.585	µg/L	EPA 608	0.014	0.05			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	Endrin	n/a	=	0.592	µg/L	EPA 608	0.014	0.05			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	Endrin	n/a	=	118	%	EPA 608	-88	-88	30	147	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	Endrin	n/a	=	117	%	EPA 608	-88	-88	30	147	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	Endrin	n/a	=	1	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Endrin	n/a	<	0.014	µg/L	EPA 608	0.014	0.05			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	Endrin aldehyde	n/a	=	0.479	µg/L	EPA 608	0.015	0.05			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	Endrin aldehyde	n/a	=	0.456	µg/L	EPA 608	0.015	0.05			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	Endrin aldehyde	n/a	=	91	%	EPA 608	-88	-88	41	203	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	Endrin aldehyde	n/a	=	96	%	EPA 608	-88	-88	41	203	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	Endrin aldehyde	n/a	=	5	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Endrin aldehyde	n/a	<	0.015	µg/L	EPA 608	0.015	0.05			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	EPTC	n/a	=	4.98	µg/L	EPA 525.2	0.23	1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	EPTC	n/a	=	100	%	EPA 525.2	-88	-88	75	110	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	EPTC	n/a	=	5.3	µg/L	EPA 525.2	0.23	1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	EPTC	n/a	=	106	%	EPA 525.2	-88	-88	67	119	
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Ethoprop	n/a	=	1.16	µg/L	EPA 525.2	0.0067	0.01			GB
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Ethoprop	n/a	=	0.891	µg/L	EPA 525.2	0.0067	0.01			GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Ethoprop	n/a	=	9	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Ethoprop	n/a	=	544	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Ethoprop	n/a	=	26	%	EPA 525.2	-88	-88	0	25	IL
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Ethoprop	n/a	=	0.0496	µg/L	EPA 525.2	0.0067	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Ethoprop	n/a	=	99	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Ethyl parathion	n/a	=	0.744	µg/L	EPA 525.2	0.0054	0.01			GB
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Ethyl parathion	n/a	=	0.562	µg/L	EPA 525.2	0.0054	0.01			R

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Ethyl parathion	n/a	=	-58	%	EPA 525.2	-88	-88	50	150	R
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Ethyl parathion	n/a	=	305	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Ethyl parathion	n/a	=	28	%	EPA 525.2	-88	-88	0	25	IL
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Ethyl parathion	n/a	=	0.0584	µg/L	EPA 525.2	0.0054	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Ethyl parathion	n/a	=	117	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Fensulfothion	n/a	=	0.0299	µg/L	EPA 525.2	0.0029	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Fensulfothion	n/a	=	0.0218	µg/L	EPA 525.2	0.0029	0.01			GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Fensulfothion	n/a	=	44	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Fensulfothion	n/a	=	60	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Fensulfothion	n/a	=	31	%	EPA 525.2	-88	-88	0	25	IL
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Fensulfothion	n/a	=	0.0449	µg/L	EPA 525.2	0.0029	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Fensulfothion	n/a	=	90	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Fenthion	n/a	=	0.0368	µg/L	EPA 525.2	0.0038	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Fenthion	n/a	=	0.0377	µg/L	EPA 525.2	0.0038	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Fenthion	n/a	=	75	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Fenthion	n/a	=	74	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Fenthion	n/a	=	2	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Fenthion	n/a	=	0.0402	µg/L	EPA 525.2	0.0038	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Fenthion	n/a	=	80	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			
2010/11-3	Lab	LCS	11/30/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.512	µg/L	EPA 608	0.01	0.1			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	0.499	µg/L	EPA 608	0.01	0.1			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	100	%	EPA 608	-88	-88	32	127	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	102	%	EPA 608	-88	-88	32	127	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	gamma-BHC (Lindane)	n/a	=	3	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	gamma-BHC (Lindane)	n/a	<	0.01	µg/L	EPA 608	0.01	0.1			
2010/11-3	000NONPJ	matrix spike	11/23/2010	Pesticide	Glyphosate	n/a	=	20.6	µg/L	EPA 547	1.8	5			
2010/11-3	000NONPJ	matrix spike dup	11/23/2010	Pesticide	Glyphosate	n/a	=	19.1	µg/L	EPA 547	1.8	5			
2010/11-3	000NONPJ	matrix spike dup, rec	11/23/2010	Pesticide	Glyphosate	n/a	=	77	%	EPA 547	-88	-88	68	134	
2010/11-3	000NONPJ	matrix spike, rec	11/23/2010	Pesticide	Glyphosate	n/a	=	82	%	EPA 547	-88	-88	68	134	
2010/11-3	000NONPJ	matrix spike, RPD	11/23/2010	Pesticide	Glyphosate	n/a	=	7	%	EPA 547	-88	-88	0	30	
2010/11-3	Lab	LCS	11/23/2010	Pesticide	Glyphosate	n/a	=	23.2	µg/L	EPA 547	1.8	5			
2010/11-3	Lab	LCS, rec	11/23/2010	Pesticide	Glyphosate	n/a	=	93	%	EPA 547	-88	-88	71	137	
2010/11-3	Lab	method blank	11/23/2010	Pesticide	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5			
2010/11-3	MO-OJA	matrix spike	11/23/2010	Pesticide	Glyphosate	n/a	=	33.6	µg/L	EPA 547	1.8	5			
2010/11-3	MO-OJA	matrix spike dup	11/23/2010	Pesticide	Glyphosate	n/a	=	38	µg/L	EPA 547	1.8	5			
2010/11-3	MO-OJA	matrix spike dup, rec	11/23/2010	Pesticide	Glyphosate	n/a	=	110	%	EPA 547	-88	-88	68	134	
2010/11-3	MO-OJA	matrix spike, rec	11/23/2010	Pesticide	Glyphosate	n/a	=	93	%	EPA 547	-88	-88	68	134	
2010/11-3	MO-OJA	matrix spike, RPD	11/23/2010	Pesticide	Glyphosate	n/a	=	12	%	EPA 547	-88	-88	0	30	
2010/11-3	Lab	LCS	11/30/2010	Pesticide	Heptachlor	n/a	=	0.499	µg/L	EPA 608	0.0085	0.05			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	Heptachlor	n/a	=	0.493	µg/L	EPA 608	0.0085	0.05			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	Heptachlor	n/a	=	99	%	EPA 608	-88	-88	34	111	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	Heptachlor	n/a	=	100	%	EPA 608	-88	-88	34	111	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	Heptachlor	n/a	=	1	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Heptachlor	n/a	<	0.0085	µg/L	EPA 608	0.0085	0.05			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS	11/30/2010	Pesticide	Heptachlor epoxide	n/a	=	0.504	µg/L	EPA 608	0.0095	0.05			
2010/11-3	Lab	LCS dup	11/30/2010	Pesticide	Heptachlor epoxide	n/a	=	0.493	µg/L	EPA 608	0.0095	0.05			
2010/11-3	Lab	LCS dup, rec	11/30/2010	Pesticide	Heptachlor epoxide	n/a	=	99	%	EPA 608	-88	-88	37	142	
2010/11-3	Lab	LCS, rec	11/30/2010	Pesticide	Heptachlor epoxide	n/a	=	101	%	EPA 608	-88	-88	37	142	
2010/11-3	Lab	LCS, RPD	11/30/2010	Pesticide	Heptachlor epoxide	n/a	=	2	%	EPA 608	-88	-88	0	30	
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Heptachlor epoxide	n/a	<	0.0095	µg/L	EPA 608	0.0095	0.05			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Malathion	n/a	=	0.74	µg/L	EPA 525.2	0.0076	0.01			GB
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Malathion	n/a	=	0.259	µg/L	EPA 525.2	0.0076	0.01			GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Malathion	n/a	=	238	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Malathion	n/a	=	1200	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Malathion	n/a	=	96	%	EPA 525.2	-88	-88	0	25	IL
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Malathion	n/a	=	0.0574	µg/L	EPA 525.2	0.0076	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Malathion	n/a	=	115	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Merphos	n/a	=	0.069	µg/L	EPA 525.2	0.0058	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Merphos	n/a	=	0.0579	µg/L	EPA 525.2	0.0058	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Merphos	n/a	=	116	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Merphos	n/a	=	138	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Merphos	n/a	=	18	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Merphos	n/a	=	0.0669	µg/L	EPA 525.2	0.0058	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Merphos	n/a	=	134	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Methoxychlor	n/a	<	0.027	µg/L	EPA 608	0.027	0.1			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Methyl parathion	n/a	=	0.567	µg/L	EPA 525.2	0.0063	0.01			GB
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Methyl parathion	n/a	=	0.417	µg/L	EPA 525.2	0.0063	0.01			GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Methyl parathion	n/a	=	338	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Methyl parathion	n/a	=	639	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Methyl parathion	n/a	=	31	%	EPA 525.2	-88	-88	0	25	IL
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Methyl parathion	n/a	=	0.0606	µg/L	EPA 525.2	0.0063	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Methyl parathion	n/a	=	121	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Metolachlor	n/a	=	4.72	µg/L	EPA 525.2	0.056	0.1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Metolachlor	n/a	=	94	%	EPA 525.2	-88	-88	55	170	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Metolachlor	n/a	=	5.42	µg/L	EPA 525.2	0.056	0.1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Metolachlor	n/a	=	108	%	EPA 525.2	-88	-88	53	178	
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Metribuzin	n/a	=	4.76	µg/L	EPA 525.2	0.074	0.1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Metribuzin	n/a	=	95	%	EPA 525.2	-88	-88	44	149	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Metribuzin	n/a	=	4.84	µg/L	EPA 525.2	0.074	0.1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Metribuzin	n/a	=	97	%	EPA 525.2	-88	-88	64	155	
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Mevinphos	n/a	=	0.0461	µg/L	EPA 525.2	0.0042	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Mevinphos	n/a	=	0.0447	µg/L	EPA 525.2	0.0042	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Mevinphos	n/a	=	89	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Mevinphos	n/a	=	92	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Mevinphos	n/a	=	3	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Mevinphos	n/a	=	0.0518	µg/L	EPA 525.2	0.0042	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Mevinphos	n/a	=	104	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Molinate	n/a	=	5.13	µg/L	EPA 525.2	0.051	0.1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Molinate	n/a	=	103	%	EPA 525.2	-88	-88	76	116	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Molinate	n/a	=	5.38	µg/L	EPA 525.2	0.051	0.1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Molinate	n/a	=	108	%	EPA 525.2	-88	-88	68	125	
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Naled	n/a	=	0.0259	µg/L	EPA 525.2	0.0076	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Naled	n/a	=	0.0241	µg/L	EPA 525.2	0.0076	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Naled	n/a	=	48	%	EPA 525.2	-88	-88	5	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Naled	n/a	=	52	%	EPA 525.2	-88	-88	5	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Naled	n/a	=	7	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Naled	n/a	=	0.0411	µg/L	EPA 525.2	0.0076	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Naled	n/a	=	82	%	EPA 525.2	-88	-88	5	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	Pentachlorophenol	n/a	=	1.95	µg/L	EPA 515.3	0.02	0.2			
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	Pentachlorophenol	n/a	=	1.85	µg/L	EPA 515.3	0.02	0.2			
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	Pentachlorophenol	n/a	=	92	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	Pentachlorophenol	n/a	=	97	%	EPA 515.3	-88	-88	70	130	
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	Pentachlorophenol	n/a	=	5	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	Pentachlorophenol	n/a	=	1.76	µg/L	EPA 515.3	0.02	0.2			
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	Pentachlorophenol	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/1/2010	Pesticide	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2			
2010/11-3	Lab	LCS	12/2/2010	Pesticide	Pentachlorophenol	n/a	=	1.91	µg/L	EPA 515.3	0.02	0.2			
2010/11-3	Lab	LCS, rec	12/2/2010	Pesticide	Pentachlorophenol	n/a	=	95	%	EPA 515.3	-88	-88	70	130	
2010/11-3	Lab	method blank	12/2/2010	Pesticide	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Phorate	n/a	=	1.53	µg/L	EPA 525.2	0.003	0.01			GB
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Phorate	n/a	=	1.19	µg/L	EPA 525.2	0.003	0.01			R
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Phorate	n/a	=	-286	%	EPA 525.2	-88	-88	50	150	R
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Phorate	n/a	=	396	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Phorate	n/a	=	25	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Phorate	n/a	=	0.0484	µg/L	EPA 525.2	0.003	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Phorate	n/a	=	97	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			
2010/11-3	000NONPJ	matrix spike	12/2/2010	Pesticide	Picloram	n/a	=	3.43	µg/L	EPA 515.3	0.34	0.6			GB
2010/11-3	000NONPJ	matrix spike dup	12/2/2010	Pesticide	Picloram	n/a	=	2.9	µg/L	EPA 515.3	0.34	0.6			GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/2/2010	Pesticide	Picloram	n/a	=	145	%	EPA 515.3	-88	-88	70	130	GB
2010/11-3	000NONPJ	matrix spike, rec	12/2/2010	Pesticide	Picloram	n/a	=	171	%	EPA 515.3	-88	-88	70	130	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/2/2010	Pesticide	Picloram	n/a	=	17	%	EPA 515.3	-88	-88	0	30	
2010/11-3	Lab	LCS	12/1/2010	Pesticide	Picloram	n/a	=	3.08	µg/L	EPA 515.3	0.34	0.6			EUM
2010/11-3	Lab	LCS, rec	12/1/2010	Pesticide	Picloram	n/a	=	154	%	EPA 515.3	-88	-88	70	130	EUM
2010/11-3	Lab	method blank	12/1/2010	Pesticide	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Prometon	n/a	=	3.45	µg/L	EPA 525.2	0.16	0.2			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Prometon	n/a	=	69	%	EPA 525.2	-88	-88	6	110	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Prometon	n/a	=	5.08	µg/L	EPA 525.2	0.16	0.2			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Prometon	n/a	=	102	%	EPA 525.2	-88	-88	5	148	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Prometryn	n/a	=	4.54	µg/L	EPA 525.2	0.074	0.1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Prometryn	n/a	=	91	%	EPA 525.2	-88	-88	34	152	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Prometryn	n/a	=	5.42	µg/L	EPA 525.2	0.074	0.1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Prometryn	n/a	=	108	%	EPA 525.2	-88	-88	44	169	
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	1.16	µg/L	EPA 525.2	0.0041	0.01			GB
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.89	µg/L	EPA 525.2	0.0041	0.01			GB
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	584	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	1120	%	EPA 525.2	-88	-88	50	150	GB
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	26	%	EPA 525.2	-88	-88	0	25	IL
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0518	µg/L	EPA 525.2	0.0041	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	=	104	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Simazine	n/a	=	4.14	µg/L	EPA 525.2	0.083	0.1			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Simazine	n/a	=	83	%	EPA 525.2	-88	-88	54	156	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Simazine	n/a	=	5.38	µg/L	EPA 525.2	0.083	0.1			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Simazine	n/a	=	108	%	EPA 525.2	-88	-88	53	152	
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0421	µg/L	EPA 525.2	0.0031	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0399	µg/L	EPA 525.2	0.0031	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	80	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	84	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	5	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0524	µg/L	EPA 525.2	0.0031	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	105	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Terbacil	n/a	=	4.99	µg/L	EPA 525.2	0.55	2			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Terbacil	n/a	=	100	%	EPA 525.2	-88	-88	66	140	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Terbacil	n/a	=	5.27	µg/L	EPA 525.2	0.55	2			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Terbacil	n/a	=	105	%	EPA 525.2	-88	-88	56	159	
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Thiobencarb	n/a	=	4.22	µg/L	EPA 525.2	0.11	0.2			
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Thiobencarb	n/a	=	84	%	EPA 525.2	-88	-88	57	162	
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Thiobencarb	n/a	=	5.02	µg/L	EPA 525.2	0.11	0.2			
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Thiobencarb	n/a	=	100	%	EPA 525.2	-88	-88	71	160	
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Tokuthion	n/a	=	0.0473	µg/L	EPA 525.2	0.0078	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Tokuthion	n/a	=	0.0428	µg/L	EPA 525.2	0.0078	0.01			
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Tokuthion	n/a	=	86	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Tokuthion	n/a	=	95	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Tokuthion	n/a	=	10	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Tokuthion	n/a	=	0.0506	µg/L	EPA 525.2	0.0078	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Tokuthion	n/a	=	101	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			
2010/11-3	Lab	method blank	11/30/2010	Pesticide	Toxaphene	n/a	<	0.6	µg/L	EPA 608	0.6	2.5			
2010/11-3	000NONPJ	matrix spike	12/15/2010	Pesticide	Trichloronate	n/a	=	0.0489	µg/L	EPA 525.2	0.0067	0.01			
2010/11-3	000NONPJ	matrix spike dup	12/15/2010	Pesticide	Trichloronate	n/a	=	0.047	µg/L	EPA 525.2	0.0067	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-3	000NONPJ	matrix spike dup, rec	12/15/2010	Pesticide	Trichloronate	n/a	=	94	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, rec	12/15/2010	Pesticide	Trichloronate	n/a	=	98	%	EPA 525.2	-88	-88	50	150	
2010/11-3	000NONPJ	matrix spike, RPD	12/15/2010	Pesticide	Trichloronate	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-3	Lab	LCS	12/15/2010	Pesticide	Trichloronate	n/a	=	0.05	µg/L	EPA 525.2	0.0067	0.01			
2010/11-3	Lab	LCS, rec	12/15/2010	Pesticide	Trichloronate	n/a	=	100	%	EPA 525.2	-88	-88	50	150	
2010/11-3	Lab	method blank	12/15/2010	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-3	Lab	LCS	12/18/2010	Pesticide	Trithion	n/a	=	2.84	µg/L	EPA 525.2	0.01	0.1			EUM
2010/11-3	Lab	LCS, rec	12/18/2010	Pesticide	Trithion	n/a	=	57	%	EPA 525.2	-88	-88	62	149	EUM
2010/11-3	Lab	method blank	12/18/2010	Pesticide	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			
2010/11-3	MO-OJA	matrix spike	12/18/2010	Pesticide	Trithion	n/a	=	4.18	µg/L	EPA 525.2	0.01	0.1			GB
2010/11-3	MO-OJA	matrix spike, rec	12/18/2010	Pesticide	Trithion	n/a	=	84	%	EPA 525.2	-88	-88	86	144	GB
2010/11-4	000NONPJ	matrix spike	3/1/2011	Anion	Chloride	n/a	=	250	mg/L	EPA 300.0	1	5			D
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Anion	Chloride	n/a	=	250	mg/L	EPA 300.0	1	5			D
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Anion	Chloride	n/a	=	97	%	EPA 300.0	-88	-88	72	118	D
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Anion	Chloride	n/a	=	96	%	EPA 300.0	-88	-88	72	118	D
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Anion	Chloride	n/a	=	0.1	%	EPA 300.0	-88	-88	0	20	D
2010/11-4	000NONPJ	matrix spike	3/2/2011	Anion	Chloride	n/a	=	42.8	mg/L	EPA 300.0	0.5	2.5			D
2010/11-4	000NONPJ	matrix spike dup	3/2/2011	Anion	Chloride	n/a	=	42.6	mg/L	EPA 300.0	0.5	2.5			D
2010/11-4	000NONPJ	matrix spike dup, rec	3/2/2011	Anion	Chloride	n/a	=	97	%	EPA 300.0	-88	-88	72	118	D
2010/11-4	000NONPJ	matrix spike, rec	3/2/2011	Anion	Chloride	n/a	=	98	%	EPA 300.0	-88	-88	72	118	D
2010/11-4	000NONPJ	matrix spike, RPD	3/2/2011	Anion	Chloride	n/a	=	0.6	%	EPA 300.0	-88	-88	0	20	D
2010/11-4	Lab	LCS	3/1/2011	Anion	Chloride	n/a	=	3.91	mg/L	EPA 300.0	0.1	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Anion	Chloride	n/a	=	98	%	EPA 300.0	-88	-88	90	110	X
2010/11-4	Lab	method blank	3/1/2011	Anion	Chloride	n/a	DNQ	0.112	mg/L	EPA 300.0	0.1	0.5			IP
2010/11-4	Lab	LCS	3/2/2011	Anion	Chloride	n/a	=	4.01	mg/L	EPA 300.0	0.1	0.5			X
2010/11-4	Lab	LCS, rec	3/2/2011	Anion	Chloride	n/a	=	100	%	EPA 300.0	-88	-88	90	110	X
2010/11-4	Lab	method blank	3/2/2011	Anion	Chloride	n/a	<	0.1	mg/L	EPA 300.0	0.1	0.5			X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Anion	Chloride	n/a	=	84.6	mg/L	EPA 300.0	1	5			D
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Anion	Chloride	n/a	=	83.2	mg/L	EPA 300.0	1	5			D
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Anion	Chloride	n/a	=	97	%	EPA 300.0	-88	-88	72	118	D
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Anion	Chloride	n/a	=	101	%	EPA 300.0	-88	-88	72	118	D
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Anion	Chloride	n/a	=	2	%	EPA 300.0	-88	-88	0	20	D
2010/11-4	000NONPJ	matrix spike	3/1/2011	Anion	Fluoride	n/a	=	21.2	mg/L	EPA 300.0	0.2	1			D
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Anion	Fluoride	n/a	=	21.4	mg/L	EPA 300.0	0.2	1			D
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Anion	Fluoride	n/a	=	107	%	EPA 300.0	-88	-88	79	109	D
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Anion	Fluoride	n/a	=	106	%	EPA 300.0	-88	-88	79	109	D
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Anion	Fluoride	n/a	=	0.8	%	EPA 300.0	-88	-88	0	20	D
2010/11-4	000NONPJ	matrix spike	3/2/2011	Anion	Fluoride	n/a	=	11.2	mg/L	EPA 300.0	0.1	0.5			D
2010/11-4	000NONPJ	matrix spike dup	3/2/2011	Anion	Fluoride	n/a	=	11.2	mg/L	EPA 300.0	0.1	0.5			D
2010/11-4	000NONPJ	matrix spike dup, rec	3/2/2011	Anion	Fluoride	n/a	=	108	%	EPA 300.0	-88	-88	79	109	D
2010/11-4	000NONPJ	matrix spike, rec	3/2/2011	Anion	Fluoride	n/a	=	108	%	EPA 300.0	-88	-88	79	109	D
2010/11-4	000NONPJ	matrix spike, RPD	3/2/2011	Anion	Fluoride	n/a	=	0.1	%	EPA 300.0	-88	-88	0	20	D
2010/11-4	Lab	LCS	3/1/2011	Anion	Fluoride	n/a	=	2.1	mg/L	EPA 300.0	0.02	0.1			X
2010/11-4	Lab	LCS, rec	3/1/2011	Anion	Fluoride	n/a	=	105	%	EPA 300.0	-88	-88	90	110	X
2010/11-4	Lab	method blank	3/1/2011	Anion	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1			X
2010/11-4	Lab	LCS	3/2/2011	Anion	Fluoride	n/a	=	2.19	mg/L	EPA 300.0	0.02	0.1			X
2010/11-4	Lab	LCS, rec	3/2/2011	Anion	Fluoride	n/a	=	109	%	EPA 300.0	-88	-88	90	110	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	method blank	3/2/2011	Anion	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1			X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Anion	Fluoride	n/a	=	22.1	mg/L	EPA 300.0	0.2	1			D
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Anion	Fluoride	n/a	=	22.2	mg/L	EPA 300.0	0.2	1			D
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Anion	Fluoride	n/a	=	108	%	EPA 300.0	-88	-88	79	109	D
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Anion	Fluoride	n/a	=	107	%	EPA 300.0	-88	-88	79	109	D
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Anion	Fluoride	n/a	=	0.5	%	EPA 300.0	-88	-88	0	20	D
2010/11-4	000NONPJ	matrix spike	3/3/2011	Anion	Perchlorate	n/a	=	10.7	µg/L	EPA 314.0	0.64	2			X
2010/11-4	000NONPJ	matrix spike dup	3/3/2011	Anion	Perchlorate	n/a	=	9.69	µg/L	EPA 314.0	0.64	2			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/3/2011	Anion	Perchlorate	n/a	=	97	%	EPA 314.0	-88	-88	80	120	X
2010/11-4	000NONPJ	matrix spike, rec	3/3/2011	Anion	Perchlorate	n/a	=	107	%	EPA 314.0	-88	-88	80	120	X
2010/11-4	000NONPJ	matrix spike, RPD	3/3/2011	Anion	Perchlorate	n/a	=	10	%	EPA 314.0	-88	-88	0	15	X
2010/11-4	000NONPJ	matrix spike	3/4/2011	Anion	Perchlorate	n/a	=	9.75	µg/L	EPA 314.0	0.64	2			X
2010/11-4	000NONPJ	matrix spike dup	3/4/2011	Anion	Perchlorate	n/a	=	9.94	µg/L	EPA 314.0	0.64	2			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/4/2011	Anion	Perchlorate	n/a	=	99	%	EPA 314.0	-88	-88	80	120	X
2010/11-4	000NONPJ	matrix spike, rec	3/4/2011	Anion	Perchlorate	n/a	=	97	%	EPA 314.0	-88	-88	80	120	X
2010/11-4	000NONPJ	matrix spike, RPD	3/4/2011	Anion	Perchlorate	n/a	=	2	%	EPA 314.0	-88	-88	0	15	X
2010/11-4	Lab	LCS	3/3/2011	Anion	Perchlorate	n/a	=	10.6	µg/L	EPA 314.0	0.64	2			X
2010/11-4	Lab	LCS, rec	3/3/2011	Anion	Perchlorate	n/a	=	106	%	EPA 314.0	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/3/2011	Anion	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2			X
2010/11-4	Lab	LCS	3/4/2011	Anion	Perchlorate	n/a	=	10.6	µg/L	EPA 314.0	0.64	2			X
2010/11-4	Lab	LCS, rec	3/4/2011	Anion	Perchlorate	n/a	=	106	%	EPA 314.0	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/4/2011	Anion	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2			X
2010/11-4	MO-MEI	field blank	2/17/2011	Bacteriological	E. Coli	n/a	<	10	MPN/100 mL	MMO-MUG	10	10	-88	10	
2010/11-4	MO-MEI	field blank	2/18/2011	Bacteriological	Fecal Coliform	n/a	<	2	MPN/100 mL	SM 9221 E	2	2	-88	2	
2010/11-4	MO-MEI	field blank	2/17/2011	Bacteriological	Total Coliform	n/a	<	10	MPN/100 mL	MMO-MUG	10	10	-88	10	
2010/11-4	000NONPJ	matrix spike	3/1/2011	Cation	Calcium	Total	=	51.6	mg/L	EPA 200.7	0.016	0.1			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Cation	Calcium	Total	=	50.7	mg/L	EPA 200.7	0.016	0.1			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Cation	Calcium	Total	=	97	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Cation	Calcium	Total	=	99	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Cation	Calcium	Total	=	2	%	EPA 200.7	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Cation	Calcium	Total	=	48.6	mg/L	EPA 200.7	0.016	0.1			X
2010/11-4	Lab	LCS	3/1/2011	Cation	Calcium	Total	=	49.6	mg/L	EPA 200.7	0.016	0.1			X
2010/11-4	Lab	LCS, rec	3/1/2011	Cation	Calcium	Total	=	97	%	EPA 200.7	-88	-88	85	115	X
2010/11-4	Lab	LCS, rec	3/1/2011	Cation	Calcium	Total	=	99	%	EPA 200.7	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Cation	Calcium	Total	<	0.016	mg/L	EPA 200.7	0.016	0.1			X
2010/11-4	Lab	method blank	3/1/2011	Cation	Calcium	Total	<	0.016	mg/L	EPA 200.7	0.016	0.1			X
2010/11-4	ME-VR2	matrix spike	3/1/2011	Cation	Calcium	Total	=	165	mg/L	EPA 200.7	0.016	0.1			X
2010/11-4	ME-VR2	matrix spike dup	3/1/2011	Cation	Calcium	Total	=	163	mg/L	EPA 200.7	0.016	0.1			X
2010/11-4	ME-VR2	matrix spike dup, rec	3/1/2011	Cation	Calcium	Total	=	97	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	ME-VR2	matrix spike, rec	3/1/2011	Cation	Calcium	Total	=	102	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	ME-VR2	matrix spike, RPD	3/1/2011	Cation	Calcium	Total	=	1	%	EPA 200.7	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/1/2011	Cation	Calcium	Total	=	56.6	mg/L	EPA 200.7	0.016	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/1/2011	Cation	Calcium	Total	=	57	mg/L	EPA 200.7	0.016	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/1/2011	Cation	Calcium	Total	=	98	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	MO-CAM	matrix spike, rec	3/1/2011	Cation	Calcium	Total	=	97	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	MO-CAM	matrix spike, RPD	3/1/2011	Cation	Calcium	Total	=	0.7	%	EPA 200.7	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Cation	Magnesium	Total	=	49.9	mg/L	EPA 200.7	0.012	0.1			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Cation	Magnesium	Total	=	49.3	mg/L	EPA 200.7	0.012	0.1			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Cation	Magnesium	Total	=	97	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Cation	Magnesium	Total	=	98	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Cation	Magnesium	Total	=	1	%	EPA 200.7	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Cation	Magnesium	Total	=	48.5	mg/L	EPA 200.7	0.012	0.1			X
2010/11-4	Lab	LCS	3/1/2011	Cation	Magnesium	Total	=	48.1	mg/L	EPA 200.7	0.012	0.1			X
2010/11-4	Lab	LCS, rec	3/1/2011	Cation	Magnesium	Total	=	96	%	EPA 200.7	-88	-88	85	115	X
2010/11-4	Lab	LCS, rec	3/1/2011	Cation	Magnesium	Total	=	97	%	EPA 200.7	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Cation	Magnesium	Total	<	0.012	mg/L	EPA 200.7	0.012	0.1			X
2010/11-4	Lab	method blank	3/1/2011	Cation	Magnesium	Total	<	0.012	mg/L	EPA 200.7	0.012	0.1			X
2010/11-4	ME-VR2	matrix spike	3/1/2011	Cation	Magnesium	Total	=	82.8	mg/L	EPA 200.7	0.012	0.1			X
2010/11-4	ME-VR2	matrix spike dup	3/1/2011	Cation	Magnesium	Total	=	82.5	mg/L	EPA 200.7	0.012	0.1			X
2010/11-4	ME-VR2	matrix spike dup, rec	3/1/2011	Cation	Magnesium	Total	=	100	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	ME-VR2	matrix spike, rec	3/1/2011	Cation	Magnesium	Total	=	100	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	ME-VR2	matrix spike, RPD	3/1/2011	Cation	Magnesium	Total	=	0.3	%	EPA 200.7	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/1/2011	Cation	Magnesium	Total	=	50.2	mg/L	EPA 200.7	0.012	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/1/2011	Cation	Magnesium	Total	=	50.8	mg/L	EPA 200.7	0.012	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/1/2011	Cation	Magnesium	Total	=	98	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	MO-CAM	matrix spike, rec	3/1/2011	Cation	Magnesium	Total	=	97	%	EPA 200.7	-88	-88	70	130	X
2010/11-4	MO-CAM	matrix spike, RPD	3/1/2011	Cation	Magnesium	Total	=	1	%	EPA 200.7	-88	-88	0	30	X
2010/11-4	000NONPJ	lab duplicate	2/23/2011	Conventional	Alkalinity as CaCO3	n/a	=	188	mg/L	SM 2320 B	1.2	10		15	X
2010/11-4	000NONPJ	lab duplicate	2/24/2011	Conventional	Alkalinity as CaCO3	n/a	DNQ	1.31	mg/L	SM 2320 B	1.2	2		15	X
2010/11-4	Lab	LCS	2/23/2011	Conventional	Alkalinity as CaCO3	n/a	=	263	mg/L	SM 2320 B	1.2	10			X
2010/11-4	Lab	LCS, rec	2/23/2011	Conventional	Alkalinity as CaCO3	n/a	=	105	%	SM 2320 B	-88	-88	94	108	X
2010/11-4	Lab	method blank	2/23/2011	Conventional	Alkalinity as CaCO3	n/a	<	1.2	mg/L	SM 2320 B	1.2	10			X
2010/11-4	Lab	LCS	2/24/2011	Conventional	Alkalinity as CaCO3	n/a	=	260	mg/L	SM 2320 B	1.2	2			X
2010/11-4	Lab	LCS, rec	2/24/2011	Conventional	Alkalinity as CaCO3	n/a	=	104	%	SM 2320 B	-88	-88	94	108	X
2010/11-4	Lab	method blank	2/24/2011	Conventional	Alkalinity as CaCO3	n/a	<	1.2	mg/L	SM 2320 B	1.2	2			X
2010/11-4	Lab	LCS	2/23/2011	Conventional	BOD	n/a	=	190	mg/L	SM 5210 B	0.1	2			X
2010/11-4	Lab	LCS, rec	2/23/2011	Conventional	BOD	n/a	=	96	%	SM 5210 B	-88	-88	85	115	X
2010/11-4	000NONPJ	lab duplicate	2/18/2011	Conventional	COD	n/a	=	41.4	mg/L	EPA 410.4	1.8	5			X
2010/11-4	000NONPJ	matrix spike	2/18/2011	Conventional	COD	n/a	=	219	mg/L	EPA 410.4	3.7	10			D
2010/11-4	000NONPJ	matrix spike	2/18/2011	Conventional	COD	n/a	=	218	mg/L	EPA 410.4	3.7	10			D
2010/11-4	000NONPJ	matrix spike dup	2/18/2011	Conventional	COD	n/a	=	219	mg/L	EPA 410.4	3.7	10			D
2010/11-4	000NONPJ	matrix spike dup	2/18/2011	Conventional	COD	n/a	=	218	mg/L	EPA 410.4	3.7	10			D
2010/11-4	000NONPJ	matrix spike dup, rec	2/18/2011	Conventional	COD	n/a	=	102	%	EPA 410.4	-88	-88	90	110	D
2010/11-4	000NONPJ	matrix spike dup, rec	2/18/2011	Conventional	COD	n/a	=	106	%	EPA 410.4	-88	-88	90	110	D
2010/11-4	000NONPJ	matrix spike, rec	2/18/2011	Conventional	COD	n/a	=	101	%	EPA 410.4	-88	-88	90	110	D
2010/11-4	000NONPJ	matrix spike, rec	2/18/2011	Conventional	COD	n/a	=	106	%	EPA 410.4	-88	-88	90	110	D
2010/11-4	000NONPJ	matrix spike, RPD	2/18/2011	Conventional	COD	n/a	=	0.06	%	EPA 410.4	-88	-88	0	15	D
2010/11-4	000NONPJ	matrix spike, RPD	2/18/2011	Conventional	COD	n/a	=	0.08	%	EPA 410.4	-88	-88	0	15	D
2010/11-4	Lab	LCS	2/18/2011	Conventional	COD	n/a	=	95.5	mg/L	EPA 410.4	1.8	5			X
2010/11-4	Lab	LCS, rec	2/18/2011	Conventional	COD	n/a	=	96	%	EPA 410.4	-88	-88	90	110	X
2010/11-4	Lab	method blank	2/18/2011	Conventional	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5			X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Conventional	Cyanide	Total	=	0.124	mg/L	EPA 335.4	0.0027	0.005			GB
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Conventional	Cyanide	Total	=	0.137	mg/L	EPA 335.4	0.0027	0.005			GB
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Conventional	Cyanide	Total	=	68	%	EPA 335.4	-88	-88	90	110	GB

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Conventional	Cyanide	Total	=	62	%	EPA 335.4	-88	-88	90	110	GB
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Conventional	Cyanide	Total	=	10	%	EPA 335.4	-88	-88	0	20	GB
2010/11-4	Lab	LCS	3/1/2011	Conventional	Cyanide	Total	=	0.0509	mg/L	EPA 335.4	0.0027	0.005			
2010/11-4	Lab	LCS, rec	3/1/2011	Conventional	Cyanide	Total	=	102	%	EPA 335.4	-88	-88	90	110	
2010/11-4	Lab	method blank	3/1/2011	Conventional	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005			
2010/11-4	Lab	LCS	3/3/2011	Conventional	Cyanide	Total	=	0.0496	mg/L	EPA 335.4	0.0027	0.005			
2010/11-4	Lab	LCS, rec	3/3/2011	Conventional	Cyanide	Total	=	99	%	EPA 335.4	-88	-88	90	110	
2010/11-4	Lab	method blank	3/3/2011	Conventional	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005			
2010/11-4	ME-CC	matrix spike	3/3/2011	Conventional	Cyanide	Total	=	0.195	mg/L	EPA 335.4	0.0027	0.005			
2010/11-4	ME-CC	matrix spike dup	3/3/2011	Conventional	Cyanide	Total	=	0.19	mg/L	EPA 335.4	0.0027	0.005			H
2010/11-4	ME-CC	matrix spike dup, rec	3/3/2011	Conventional	Cyanide	Total	=	95	%	EPA 335.4	-88	-88	90	110	H
2010/11-4	ME-CC	matrix spike, rec	3/3/2011	Conventional	Cyanide	Total	=	97	%	EPA 335.4	-88	-88	90	110	H
2010/11-4	ME-CC	matrix spike, RPD	3/3/2011	Conventional	Cyanide	Total	=	3	%	EPA 335.4	-88	-88	0	20	H
2010/11-4	ME-VR2	matrix spike	3/1/2011	Conventional	Cyanide	Total	=	0.186	mg/L	EPA 335.4	0.0027	0.005			
2010/11-4	ME-VR2	matrix spike dup	3/1/2011	Conventional	Cyanide	Total	=	0.201	mg/L	EPA 335.4	0.0027	0.005			
2010/11-4	ME-VR2	matrix spike dup, rec	3/1/2011	Conventional	Cyanide	Total	=	100	%	EPA 335.4	-88	-88	90	110	
2010/11-4	ME-VR2	matrix spike, rec	3/1/2011	Conventional	Cyanide	Total	=	93	%	EPA 335.4	-88	-88	90	110	
2010/11-4	ME-VR2	matrix spike, RPD	3/1/2011	Conventional	Cyanide	Total	=	8	%	EPA 335.4	-88	-88	0	20	
2010/11-4	MO-CAM	matrix spike	3/3/2011	Conventional	Cyanide	Total	=	0.0245	mg/L	EPA 335.4	0.0027	0.005			
2010/11-4	MO-CAM	matrix spike dup	3/3/2011	Conventional	Cyanide	Total	=	0.0246	mg/L	EPA 335.4	0.0027	0.005			H
2010/11-4	MO-CAM	matrix spike dup, rec	3/3/2011	Conventional	Cyanide	Total	=	98	%	EPA 335.4	-88	-88	90	110	H
2010/11-4	MO-CAM	matrix spike, rec	3/3/2011	Conventional	Cyanide	Total	=	98	%	EPA 335.4	-88	-88	90	110	H
2010/11-4	MO-CAM	matrix spike, RPD	3/3/2011	Conventional	Cyanide	Total	=	0.4	%	EPA 335.4	-88	-88	0	20	H
2010/11-4	000NONPJ	matrix spike	2/18/2011	Conventional	MBAS	n/a	=	0.233	mg/L	SM 5540 C	0.019	0.05			X
2010/11-4	000NONPJ	matrix spike dup	2/18/2011	Conventional	MBAS	n/a	=	0.238	mg/L	SM 5540 C	0.019	0.05			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/18/2011	Conventional	MBAS	n/a	=	101	%	SM 5540 C	-88	-88	77	118	X
2010/11-4	000NONPJ	matrix spike, rec	2/18/2011	Conventional	MBAS	n/a	=	99	%	SM 5540 C	-88	-88	77	118	X
2010/11-4	000NONPJ	matrix spike, RPD	2/18/2011	Conventional	MBAS	n/a	=	2	%	SM 5540 C	-88	-88	0	20	X
2010/11-4	Lab	LCS	2/18/2011	Conventional	MBAS	n/a	=	0.202	mg/L	SM 5540 C	0.019	0.05			X
2010/11-4	Lab	LCS, rec	2/18/2011	Conventional	MBAS	n/a	=	101	%	SM 5540 C	-88	-88	79	113	X
2010/11-4	Lab	method blank	2/18/2011	Conventional	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05			X
2010/11-4	Lab	LCS	2/25/2011	Conventional	Phenolics	n/a	=	0.104	mg/L	EPA 420.4	0.0016	0.01			X
2010/11-4	Lab	LCS, rec	2/25/2011	Conventional	Phenolics	n/a	=	104	%	EPA 420.4	-88	-88	90	110	X
2010/11-4	Lab	method blank	2/25/2011	Conventional	Phenolics	n/a	<	0.0016	mg/L	EPA 420.4	0.0016	0.01			X
2010/11-4	MO-HUE	matrix spike	2/25/2011	Conventional	Phenolics	n/a	=	0.231	mg/L	EPA 420.4	0.0016	0.01			X
2010/11-4	MO-HUE	matrix spike dup	2/25/2011	Conventional	Phenolics	n/a	=	0.232	mg/L	EPA 420.4	0.0016	0.01			X
2010/11-4	MO-HUE	matrix spike dup, rec	2/25/2011	Conventional	Phenolics	n/a	=	99	%	EPA 420.4	-88	-88	90	110	X
2010/11-4	MO-HUE	matrix spike, rec	2/25/2011	Conventional	Phenolics	n/a	=	98	%	EPA 420.4	-88	-88	90	110	X
2010/11-4	MO-HUE	matrix spike, RPD	2/25/2011	Conventional	Phenolics	n/a	=	0.6	%	EPA 420.4	-88	-88	0	20	X
2010/11-4	MO-OXN	matrix spike	2/25/2011	Conventional	Phenolics	n/a	=	0.238	mg/L	EPA 420.4	0.0016	0.01			X
2010/11-4	MO-OXN	matrix spike dup	2/25/2011	Conventional	Phenolics	n/a	=	0.239	mg/L	EPA 420.4	0.0016	0.01			X
2010/11-4	MO-OXN	matrix spike dup, rec	2/25/2011	Conventional	Phenolics	n/a	=	99	%	EPA 420.4	-88	-88	90	110	X
2010/11-4	MO-OXN	matrix spike, rec	2/25/2011	Conventional	Phenolics	n/a	=	98	%	EPA 420.4	-88	-88	90	110	X
2010/11-4	MO-OXN	matrix spike, RPD	2/25/2011	Conventional	Phenolics	n/a	=	0.4	%	EPA 420.4	-88	-88	0	20	X
2010/11-4	000NONPJ	lab duplicate	2/23/2011	Conventional	Specific Conductance	n/a	=	41.9	µmhos/cm	SM 2510 B	0.23	2		4.28	X
2010/11-4	000NONPJ	lab duplicate	2/24/2011	Conventional	Specific Conductance	n/a	=	109	µmhos/cm	SM 2510 B	0.23	2		4.28	X
2010/11-4	Lab	LCS	2/23/2011	Conventional	Specific Conductance	n/a	=	204	µmhos/cm	SM 2510 B	0.23	2			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS, rec	2/23/2011	Conventional	Specific Conductance	n/a	=	102	%	SM 2510 B	-88	-88	95	105	X
2010/11-4	Lab	method blank	2/23/2011	Conventional	Specific Conductance	n/a	DNQ	0.61	µmhos/cm	SM 2510 B	0.23	2			IP
2010/11-4	Lab	LCS	2/24/2011	Conventional	Specific Conductance	n/a	=	209	µmhos/cm	SM 2510 B	0.23	2			X
2010/11-4	Lab	LCS, rec	2/24/2011	Conventional	Specific Conductance	n/a	=	104	%	SM 2510 B	-88	-88	95	105	X
2010/11-4	Lab	method blank	2/24/2011	Conventional	Specific Conductance	n/a	DNQ	0.54	µmhos/cm	SM 2510 B	0.23	2			IP
2010/11-4	Lab	LCS	2/18/2011	Conventional	Total Chlorine Residual	n/a	=	0.172	mg/L	SM 4500-Cl G	0.0016	0.05			X
2010/11-4	Lab	LCS, rec	2/18/2011	Conventional	Total Chlorine Residual	n/a	=	86	%	SM 4500-Cl G	-88	-88	82	112	X
2010/11-4	Lab	method blank	2/18/2011	Conventional	Total Chlorine Residual	n/a	<	0.0016	mg/L	SM 4500-Cl G	0.0016	0.05			X
2010/11-4	ME-CC	matrix spike	2/18/2011	Conventional	Total Chlorine Residual	n/a	=	0.182	mg/L	SM 4500-Cl G	0.0016	0.05			X
2010/11-4	ME-CC	matrix spike dup	2/18/2011	Conventional	Total Chlorine Residual	n/a	=	0.181	mg/L	SM 4500-Cl G	0.0016	0.05			X
2010/11-4	ME-CC	matrix spike dup, rec	2/18/2011	Conventional	Total Chlorine Residual	n/a	=	84	%	SM 4500-Cl G	-88	-88	65	128	X
2010/11-4	ME-CC	matrix spike, rec	2/18/2011	Conventional	Total Chlorine Residual	n/a	=	85	%	SM 4500-Cl G	-88	-88	65	128	X
2010/11-4	ME-CC	matrix spike, RPD	2/18/2011	Conventional	Total Chlorine Residual	n/a	=	0.8	%	SM 4500-Cl G	-88	-88	0	15	X
2010/11-4	000NONPJ	lab duplicate	2/18/2011	Conventional	Total Dissolved Solids	n/a	=	1480	mg/L	SM 2540 C	4	10		10	X
2010/11-4	000NONPJ	lab duplicate	2/18/2011	Conventional	Total Dissolved Solids	n/a	=	741	mg/L	SM 2540 C	4	10		10	X
2010/11-4	Lab	LCS	2/18/2011	Conventional	Total Dissolved Solids	n/a	=	832	mg/L	SM 2540 C	4	10			X
2010/11-4	Lab	LCS, rec	2/18/2011	Conventional	Total Dissolved Solids	n/a	=	101	%	SM 2540 C	-88	-88	91	104	X
2010/11-4	Lab	method blank	2/18/2011	Conventional	Total Dissolved Solids	n/a	<	4	mg/L	SM 2540 C	4	10			X
2010/11-4	000NONPJ	matrix spike	3/2/2011	Conventional	Total Organic Carbon	n/a	=	4.96	mg/L	SM 5310 C	0.009	0.3			X
2010/11-4	000NONPJ	matrix spike dup	3/2/2011	Conventional	Total Organic Carbon	n/a	=	4.85	mg/L	SM 5310 C	0.009	0.3			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/2/2011	Conventional	Total Organic Carbon	n/a	=	95	%	SM 5310 C	-88	-88	84	107	X
2010/11-4	000NONPJ	matrix spike, rec	3/2/2011	Conventional	Total Organic Carbon	n/a	=	97	%	SM 5310 C	-88	-88	84	107	X
2010/11-4	000NONPJ	matrix spike, RPD	3/2/2011	Conventional	Total Organic Carbon	n/a	=	2	%	SM 5310 C	-88	-88	0	20	X
2010/11-4	Lab	LCS	3/1/2011	Conventional	Total Organic Carbon	n/a	=	5.01	mg/L	SM 5310 C	0.009	0.3			X
2010/11-4	Lab	LCS, rec	3/1/2011	Conventional	Total Organic Carbon	n/a	=	100	%	SM 5310 C	-88	-88	90	110	X
2010/11-4	Lab	method blank	3/1/2011	Conventional	Total Organic Carbon	n/a	DNQ	0.0511	mg/L	SM 5310 C	0.009	0.3			IP
2010/11-4	Lab	LCS	3/2/2011	Conventional	Total Organic Carbon	n/a	=	5.06	mg/L	SM 5310 C	0.009	0.3			X
2010/11-4	Lab	LCS, rec	3/2/2011	Conventional	Total Organic Carbon	n/a	=	101	%	SM 5310 C	-88	-88	90	110	X
2010/11-4	Lab	method blank	3/2/2011	Conventional	Total Organic Carbon	n/a	DNQ	0.0408	mg/L	SM 5310 C	0.009	0.3			IP
2010/11-4	ME-CC	matrix spike	3/1/2011	Conventional	Total Organic Carbon	n/a	=	25.7	mg/L	SM 5310 C	0.036	1.2			D
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Conventional	Total Organic Carbon	n/a	=	25.4	mg/L	SM 5310 C	0.036	1.2			D
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Conventional	Total Organic Carbon	n/a	=	97	%	SM 5310 C	-88	-88	84	107	D
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Conventional	Total Organic Carbon	n/a	=	98	%	SM 5310 C	-88	-88	84	107	D
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Conventional	Total Organic Carbon	n/a	=	1	%	SM 5310 C	-88	-88	0	20	D
2010/11-4	000NONPJ	lab duplicate	2/18/2011	Conventional	Total Suspended Solids	n/a	=	636	mg/L	SM 2540 D	5	5		20	X
2010/11-4	000NONPJ	lab duplicate	2/18/2011	Conventional	Total Suspended Solids	n/a	=	102	mg/L	SM 2540 D	5	5		20	X
2010/11-4	Lab	method blank	2/18/2011	Conventional	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5			X
2010/11-4	000NONPJ	lab duplicate	2/18/2011	Conventional	Turbidity	n/a	=	28.2	NTU	EPA 180.1	0.024	0.1		10	X
2010/11-4	000NONPJ	lab duplicate	2/18/2011	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1		10	X
2010/11-4	Lab	LCS	2/18/2011	Conventional	Turbidity	n/a	=	5.16	NTU	EPA 180.1	0.024	0.1			X
2010/11-4	Lab	LCS	2/18/2011	Conventional	Turbidity	n/a	=	5.2	NTU	EPA 180.1	0.024	0.1			X
2010/11-4	Lab	LCS, rec	2/18/2011	Conventional	Turbidity	n/a	=	99	%	EPA 180.1	-88	-88	90	110	X
2010/11-4	Lab	LCS, rec	2/18/2011	Conventional	Turbidity	n/a	=	100	%	EPA 180.1	-88	-88	90	110	X
2010/11-4	Lab	method blank	2/18/2011	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1			X
2010/11-4	Lab	method blank	2/18/2011	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1			X
2010/11-4	000NONPJ	lab duplicate	2/18/2011	Conventional	Volatile Suspended Solids	n/a	=	330	mg/L	EPA 160.4	3.1	5		15	X
2010/11-4	000NONPJ	lab duplicate	2/18/2011	Conventional	Volatile Suspended Solids	n/a	=	14	mg/L	EPA 160.4	3.1	5		15	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	method blank	2/18/2011	Conventional	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5			X
2010/11-4	Lab	LCS	2/24/2011	Hydrocarbon	Oil and Grease	n/a	=	19.8	mg/L	EPA 1664A	2	5			
2010/11-4	Lab	LCS	2/24/2011	Hydrocarbon	Oil and Grease	n/a	DNQ	4.6	mg/L	EPA 1664A	2	5			
2010/11-4	Lab	LCS dup	2/24/2011	Hydrocarbon	Oil and Grease	n/a	=	16.8	mg/L	EPA 1664A	2	5			
2010/11-4	Lab	LCS dup, rec	2/24/2011	Hydrocarbon	Oil and Grease	n/a	=	84	%	EPA 1664A	-88	-88	78	114	
2010/11-4	Lab	LCS, rec	2/24/2011	Hydrocarbon	Oil and Grease	n/a	=	92	%	EPA 1664A	-88	-88	78	114	
2010/11-4	Lab	LCS, rec	2/24/2011	Hydrocarbon	Oil and Grease	n/a	=	99	%	EPA 1664A	-88	-88	78	114	
2010/11-4	Lab	LCS, RPD	2/24/2011	Hydrocarbon	Oil and Grease	n/a	=	16	%	EPA 1664A	-88	-88	0	18	
2010/11-4	Lab	method blank	2/24/2011	Hydrocarbon	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5			
2010/11-4	Lab	method blank	2/24/2011	Hydrocarbon	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5			
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Aluminum	Dissolved	=	117	µg/L	EPA 200.8	0.19	5			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Aluminum	Dissolved	=	121	µg/L	EPA 200.8	0.19	5			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Aluminum	Dissolved	=	96	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Aluminum	Dissolved	=	88	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Aluminum	Dissolved	=	4	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Aluminum	Dissolved	=	48.6	µg/L	EPA 200.8	0.19	5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Aluminum	Dissolved	=	97	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Aluminum	Dissolved	DNQ	1.37	µg/L	EPA 200.8	0.19	5			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Aluminum	Dissolved	=	48.8	µg/L	EPA 200.8	0.19	5			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Aluminum	Dissolved	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Aluminum	Dissolved	DNQ	0.938	µg/L	EPA 200.8	0.19	5			IP
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Aluminum	Total	=	117	µg/L	EPA 200.8	0.19	5			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Aluminum	Total	=	121	µg/L	EPA 200.8	0.19	5			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Aluminum	Total	=	96	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Aluminum	Total	=	88	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Aluminum	Total	=	4	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Aluminum	Total	=	48.6	µg/L	EPA 200.8	0.19	5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Aluminum	Total	=	97	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Aluminum	Total	DNQ	1.37	µg/L	EPA 200.8	0.19	5			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Aluminum	Total	=	48.8	µg/L	EPA 200.8	0.19	5			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Aluminum	Total	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Aluminum	Total	DNQ	0.938	µg/L	EPA 200.8	0.19	5			IP
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Aluminum	Total	=	15500	µg/L	EPA 200.8	19	500			D,GB
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Aluminum	Total	=	15000	µg/L	EPA 200.8	19	500			D,GB
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Aluminum	Total	=	2960	%	EPA 200.8	-88	-88	70	130	D,GB
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Aluminum	Total	=	1980	%	EPA 200.8	-88	-88	70	130	D,GB
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Aluminum	Total	=	3	%	EPA 200.8	-88	-88	0	30	D,GB
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Aluminum	Total	=	274	µg/L	EPA 200.8	0.19	5			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Aluminum	Total	=	270	µg/L	EPA 200.8	0.19	5			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Aluminum	Total	=	84	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Aluminum	Total	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Aluminum	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Antimony	Dissolved	=	50.1	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Antimony	Dissolved	=	50.5	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Antimony	Dissolved	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Antimony	Dissolved	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Antimony	Dissolved	=	0.8	%	EPA 200.8	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS	3/1/2011	Metal	Antimony	Dissolved	=	48.6	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Antimony	Dissolved	=	97	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Antimony	Dissolved	DNQ	0.0273	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Antimony	Dissolved	=	48	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Antimony	Dissolved	=	96	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Antimony	Dissolved	DNQ	0.0158	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Antimony	Dissolved	=	44.8	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Antimony	Dissolved	=	45.3	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Antimony	Dissolved	=	90	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Antimony	Dissolved	=	89	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Antimony	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Antimony	Dissolved	=	47	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Antimony	Dissolved	=	46.1	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Antimony	Dissolved	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Antimony	Dissolved	=	93	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Antimony	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Antimony	Total	=	50.1	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Antimony	Total	=	50.5	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Antimony	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Antimony	Total	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Antimony	Total	=	0.8	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Antimony	Total	=	48.6	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Antimony	Total	=	97	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Antimony	Total	DNQ	0.0273	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Antimony	Total	=	48	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Antimony	Total	=	96	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Antimony	Total	DNQ	0.0158	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Antimony	Total	=	44.8	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Antimony	Total	=	45.3	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Antimony	Total	=	90	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Antimony	Total	=	89	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Antimony	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Antimony	Total	=	20.9	µg/L	EPA 200.8	0.008	0.5			GB
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Antimony	Total	=	21.2	µg/L	EPA 200.8	0.008	0.5			GB
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Antimony	Total	=	42	%	EPA 200.8	-88	-88	70	130	GB
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Antimony	Total	=	41	%	EPA 200.8	-88	-88	70	130	GB
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Antimony	Total	=	1	%	EPA 200.8	-88	-88	0	30	GB
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Antimony	Total	=	47	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Antimony	Total	=	46.1	µg/L	EPA 200.8	0.008	0.5			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Antimony	Total	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Antimony	Total	=	93	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Antimony	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Arsenic	Dissolved	=	52	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Arsenic	Dissolved	=	52.3	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Arsenic	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Arsenic	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Arsenic	Dissolved	=	0.5	%	EPA 200.8	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS	3/1/2011	Metal	Arsenic	Dissolved	=	47.3	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Arsenic	Dissolved	=	95	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Arsenic	Dissolved	<	0.014	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Arsenic	Dissolved	=	48.8	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Arsenic	Dissolved	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Arsenic	Dissolved	<	0.014	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Arsenic	Dissolved	=	53.9	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Arsenic	Dissolved	=	53.5	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Arsenic	Dissolved	=	101	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Arsenic	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Arsenic	Dissolved	=	0.8	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Arsenic	Dissolved	=	50.8	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Arsenic	Dissolved	=	50.3	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Arsenic	Dissolved	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Arsenic	Dissolved	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Arsenic	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Arsenic	Dissolved	=	48.4	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Arsenic	Dissolved	=	47.9	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Arsenic	Dissolved	=	95	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Arsenic	Dissolved	=	96	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Arsenic	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Arsenic	Total	=	52	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Arsenic	Total	=	52.3	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Arsenic	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Arsenic	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Arsenic	Total	=	0.5	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Arsenic	Total	=	47.3	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Arsenic	Total	=	95	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Arsenic	Total	<	0.014	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Arsenic	Total	=	48.8	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Arsenic	Total	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Arsenic	Total	<	0.014	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Arsenic	Total	=	53.9	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Arsenic	Total	=	53.5	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Arsenic	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Arsenic	Total	=	101	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Arsenic	Total	=	0.8	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Arsenic	Total	=	50.8	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Arsenic	Total	=	50.3	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Arsenic	Total	=	84	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Arsenic	Total	=	85	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Arsenic	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Arsenic	Total	=	48.4	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Arsenic	Total	=	47.9	µg/L	EPA 200.8	0.014	0.4			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Arsenic	Total	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Arsenic	Total	=	93	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Arsenic	Total	=	1	%	EPA 200.8	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Barium	Total	=	55.3	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Barium	Total	=	55.1	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Barium	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Barium	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Barium	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Barium	Total	=	51.2	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Barium	Total	=	103	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Barium	Total	<	0.024	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Barium	Total	=	49.4	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Barium	Total	=	99	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Barium	Total	<	0.024	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Barium	Total	=	89.3	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Barium	Total	=	90.4	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Barium	Total	=	95	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Barium	Total	=	93	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Barium	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Barium	Total	=	262	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Barium	Total	=	259	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Barium	Total	=	93	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Barium	Total	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Barium	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Barium	Total	=	71.8	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Barium	Total	=	70.8	µg/L	EPA 200.8	0.024	0.5			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Barium	Total	=	95	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Barium	Total	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Barium	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Beryllium	Dissolved	=	52.4	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Beryllium	Dissolved	=	53.3	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Beryllium	Dissolved	=	107	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Beryllium	Dissolved	=	105	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Beryllium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Beryllium	Dissolved	=	48.8	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Beryllium	Dissolved	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	Lab	LCS	3/3/2011	Metal	Beryllium	Dissolved	=	49.8	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	Lab	LCS, rec	3/3/2011	Metal	Beryllium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/3/2011	Metal	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Beryllium	Dissolved	=	46.8	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Beryllium	Dissolved	=	46.4	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Beryllium	Dissolved	=	93	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Beryllium	Dissolved	=	94	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Beryllium	Dissolved	=	0.8	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/3/2011	Metal	Beryllium	Dissolved	=	39.3	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	ME-SCR	matrix spike dup	3/3/2011	Metal	Beryllium	Dissolved	=	39.2	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/3/2011	Metal	Beryllium	Dissolved	=	78	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/3/2011	Metal	Beryllium	Dissolved	=	79	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/3/2011	Metal	Beryllium	Dissolved	=	0.3	%	EPA 200.8	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-HUE	matrix spike	3/3/2011	Metal	Beryllium	Dissolved	=	43.7	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	MO-HUE	matrix spike dup	3/3/2011	Metal	Beryllium	Dissolved	=	43.7	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/3/2011	Metal	Beryllium	Dissolved	=	87	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/3/2011	Metal	Beryllium	Dissolved	=	87	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/3/2011	Metal	Beryllium	Dissolved	=	0.02	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Beryllium	Total	=	52.4	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Beryllium	Total	=	53.3	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Beryllium	Total	=	107	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Beryllium	Total	=	105	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Beryllium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Beryllium	Total	=	48.8	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Beryllium	Total	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	Lab	LCS	3/3/2011	Metal	Beryllium	Total	=	49.8	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	Lab	LCS, rec	3/3/2011	Metal	Beryllium	Total	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/3/2011	Metal	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Beryllium	Total	=	46.8	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Beryllium	Total	=	46.4	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Beryllium	Total	=	93	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Beryllium	Total	=	93	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Beryllium	Total	=	0.8	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/3/2011	Metal	Beryllium	Total	=	39.3	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	ME-SCR	matrix spike dup	3/3/2011	Metal	Beryllium	Total	=	39.2	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/3/2011	Metal	Beryllium	Total	=	77	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/3/2011	Metal	Beryllium	Total	=	77	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/3/2011	Metal	Beryllium	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/3/2011	Metal	Beryllium	Total	=	43.7	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	MO-HUE	matrix spike dup	3/3/2011	Metal	Beryllium	Total	=	43.7	µg/L	EPA 200.8	0.022	0.1			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/3/2011	Metal	Beryllium	Total	=	87	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/3/2011	Metal	Beryllium	Total	=	87	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/3/2011	Metal	Beryllium	Total	=	0.02	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Cadmium	Dissolved	=	51.5	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Cadmium	Dissolved	=	51.1	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Cadmium	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Cadmium	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Cadmium	Dissolved	=	0.8	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Cadmium	Dissolved	=	49	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Cadmium	Dissolved	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Cadmium	Dissolved	<	0.013	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Cadmium	Dissolved	=	50.7	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Cadmium	Dissolved	=	102	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Cadmium	Dissolved	<	0.013	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Cadmium	Dissolved	=	47	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Cadmium	Dissolved	=	47.9	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Cadmium	Dissolved	=	95	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Cadmium	Dissolved	=	94	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Cadmium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Cadmium	Dissolved	=	45.8	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Cadmium	Dissolved	=	45	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Cadmium	Dissolved	=	90	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Cadmium	Dissolved	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Cadmium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Cadmium	Dissolved	=	42.6	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Cadmium	Dissolved	=	41.6	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Cadmium	Dissolved	=	83	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Cadmium	Dissolved	=	85	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Cadmium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Cadmium	Total	=	51.5	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Cadmium	Total	=	51.1	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Cadmium	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Cadmium	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Cadmium	Total	=	0.8	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Cadmium	Total	=	49	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Cadmium	Total	=	98	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Cadmium	Total	<	0.013	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Cadmium	Total	=	50.7	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Cadmium	Total	=	102	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Cadmium	Total	<	0.013	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Cadmium	Total	=	47	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Cadmium	Total	=	47.9	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Cadmium	Total	=	95	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Cadmium	Total	=	93	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Cadmium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Cadmium	Total	=	45.8	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Cadmium	Total	=	45	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Cadmium	Total	=	88	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Cadmium	Total	=	89	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Cadmium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Cadmium	Total	=	42.6	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Cadmium	Total	=	41.6	µg/L	EPA 200.8	0.013	0.1			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Cadmium	Total	=	83	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Cadmium	Total	=	85	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Cadmium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Chromium	Dissolved	=	50.3	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Chromium	Dissolved	=	50.5	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Chromium	Dissolved	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Chromium	Dissolved	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Chromium	Dissolved	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Chromium	Dissolved	=	49.8	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Chromium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Chromium	Dissolved	DNQ	0.0422	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Chromium	Dissolved	=	49.8	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Chromium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Chromium	Dissolved	DNQ	0.0325	µg/L	EPA 200.8	0.012	0.2			IP

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Chromium	Dissolved	=	57.2	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Chromium	Dissolved	=	56.9	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Chromium	Dissolved	=	113	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Chromium	Dissolved	=	114	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Chromium	Dissolved	=	0.5	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Chromium	Dissolved	=	52.6	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Chromium	Dissolved	=	52.1	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Chromium	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Chromium	Dissolved	=	105	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Chromium	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Chromium	Total	=	50.3	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Chromium	Total	=	50.5	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Chromium	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Chromium	Total	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Chromium	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Chromium	Total	=	49.8	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Chromium	Total	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Chromium	Total	DNQ	0.0422	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Chromium	Total	=	49.8	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Chromium	Total	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Chromium	Total	DNQ	0.0325	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Chromium	Total	=	57.2	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Chromium	Total	=	56.9	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Chromium	Total	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Chromium	Total	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Chromium	Total	=	0.5	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Chromium	Total	=	82.4	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Chromium	Total	=	80.1	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Chromium	Total	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Chromium	Total	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Chromium	Total	=	3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Chromium	Total	=	52.6	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Chromium	Total	=	52.1	µg/L	EPA 200.8	0.012	0.2			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Chromium	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Chromium	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Chromium	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Metal	Chromium VI	n/a	=	4.77	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-4	Lab	LCS, rec	2/25/2011	Metal	Chromium VI	n/a	=	95	%	EPA 218.6	-88	-88	90	110	X
2010/11-4	Lab	method blank	2/25/2011	Metal	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-4	ME-CC	matrix spike	2/25/2011	Metal	Chromium VI	n/a	=	4.98	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-4	ME-CC	matrix spike dup	2/25/2011	Metal	Chromium VI	n/a	=	5.13	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-4	ME-CC	matrix spike dup, rec	2/25/2011	Metal	Chromium VI	n/a	=	98	%	EPA 218.6	-88	-88	88	112	X
2010/11-4	ME-CC	matrix spike, rec	2/25/2011	Metal	Chromium VI	n/a	=	95	%	EPA 218.6	-88	-88	88	112	X
2010/11-4	ME-CC	matrix spike, RPD	2/25/2011	Metal	Chromium VI	n/a	=	3	%	EPA 218.6	-88	-88	0	10	X
2010/11-4	ME-SCR	matrix spike	2/25/2011	Metal	Chromium VI	n/a	=	4.9	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-4	ME-SCR	matrix spike dup	2/25/2011	Metal	Chromium VI	n/a	=	4.86	µg/L	EPA 218.6	0.0059	0.3			X
2010/11-4	ME-SCR	matrix spike dup, rec	2/25/2011	Metal	Chromium VI	n/a	=	95	%	EPA 218.6	-88	-88	88	112	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	ME-SCR	matrix spike, rec	2/25/2011	Metal	Chromium VI	n/a	=	96	%	EPA 218.6	-88	-88	88	112	X
2010/11-4	ME-SCR	matrix spike, RPD	2/25/2011	Metal	Chromium VI	n/a	=	0.9	%	EPA 218.6	-88	-88	0	10	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Copper	Dissolved	=	54.5	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Copper	Dissolved	=	54.6	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Copper	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Copper	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Copper	Dissolved	=	0.1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Copper	Dissolved	=	51.1	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Copper	Dissolved	=	102	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Copper	Dissolved	DNQ	0.0253	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Copper	Dissolved	=	53.9	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Copper	Dissolved	=	108	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Copper	Dissolved	DNQ	0.023	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Copper	Dissolved	=	55.1	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Copper	Dissolved	=	55.3	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Copper	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Copper	Dissolved	=	101	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Copper	Dissolved	=	0.4	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Copper	Dissolved	=	54.8	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Copper	Dissolved	=	54.9	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Copper	Dissolved	=	105	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Copper	Dissolved	=	105	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Copper	Dissolved	=	0.1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Copper	Total	=	54.5	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Copper	Total	=	54.6	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Copper	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Copper	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Copper	Total	=	0.1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Copper	Total	=	51.1	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Copper	Total	=	102	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Copper	Total	DNQ	0.0253	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Copper	Total	=	53.9	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Copper	Total	=	108	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Copper	Total	DNQ	0.023	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Copper	Total	=	55.1	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Copper	Total	=	55.3	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Copper	Total	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Copper	Total	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Copper	Total	=	0.4	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Copper	Total	=	83.4	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Copper	Total	=	81.9	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Copper	Total	=	96	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Copper	Total	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Copper	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Copper	Total	=	54.8	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Copper	Total	=	54.9	µg/L	EPA 200.8	0.022	0.5			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Copper	Total	=	98	%	EPA 200.8	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Copper	Total	=	98	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Copper	Total	=	0.1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Iron	Dissolved	=	1160	µg/L	EPA 200.8	0.6	20			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Iron	Dissolved	=	1170	µg/L	EPA 200.8	0.6	20			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Iron	Dissolved	=	98	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Iron	Dissolved	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Iron	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Iron	Dissolved	=	1080	µg/L	EPA 200.8	0.6	20			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Iron	Dissolved	=	103	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Iron	Dissolved	DNQ	0.73	µg/L	EPA 200.8	0.6	20			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Iron	Dissolved	=	1050	µg/L	EPA 200.8	0.6	20			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Iron	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Iron	Dissolved	<	0.6	µg/L	EPA 200.8	0.6	20			X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Iron	Total	=	1160	µg/L	EPA 200.8	0.6	20			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Iron	Total	=	1170	µg/L	EPA 200.8	0.6	20			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Iron	Total	=	98	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Iron	Total	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Iron	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Iron	Total	=	1080	µg/L	EPA 200.8	0.6	20			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Iron	Total	=	103	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Iron	Total	DNQ	0.73	µg/L	EPA 200.8	0.6	20			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Iron	Total	=	1050	µg/L	EPA 200.8	0.6	20			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Iron	Total	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Iron	Total	<	0.6	µg/L	EPA 200.8	0.6	20			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Iron	Total	=	4000	µg/L	EPA 200.8	0.6	20			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Iron	Total	=	3990	µg/L	EPA 200.8	0.6	20			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Iron	Total	=	71	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Iron	Total	=	72	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Iron	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Iron	Total	=	4280	µg/L	EPA 200.8	0.6	20			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Iron	Total	=	4180	µg/L	EPA 200.8	0.6	20			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Iron	Total	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Iron	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Iron	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Lead	Dissolved	=	51.9	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Lead	Dissolved	=	51.8	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Lead	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Lead	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Lead	Dissolved	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Lead	Dissolved	=	51.8	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Lead	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Lead	Dissolved	=	47.8	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Lead	Dissolved	=	96	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Lead	Dissolved	=	56.2	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Lead	Dissolved	=	56.9	µg/L	EPA 200.8	0.017	0.2			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Lead	Dissolved	=	114	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Lead	Dissolved	=	112	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Lead	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Lead	Dissolved	=	60	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Lead	Dissolved	=	59.3	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Lead	Dissolved	=	119	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Lead	Dissolved	=	120	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Lead	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Lead	Dissolved	=	52.1	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Lead	Dissolved	=	51.4	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Lead	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Lead	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Lead	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Lead	Total	=	51.9	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Lead	Total	=	51.8	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Lead	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Lead	Total	=	104	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Lead	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Lead	Total	=	51.8	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Lead	Total	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Lead	Total	<	0.017	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Lead	Total	=	47.8	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Lead	Total	=	96	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Lead	Total	<	0.017	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Lead	Total	=	56.2	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Lead	Total	=	56.9	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Lead	Total	=	109	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Lead	Total	=	107	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Lead	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Lead	Total	=	60	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Lead	Total	=	59.3	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Lead	Total	=	96	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Lead	Total	=	98	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Lead	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Lead	Total	=	52.1	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Lead	Total	=	51.4	µg/L	EPA 200.8	0.017	0.2			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Lead	Total	=	98	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Lead	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Lead	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/3/2011	Metal	Mercury	Dissolved	=	999	ng/L	EPA 245.1	3.9	50			X
2010/11-4	Lab	LCS	3/3/2011	Metal	Mercury	Dissolved	=	1060	ng/L	EPA 245.1	3.9	50			X
2010/11-4	Lab	LCS, rec	3/3/2011	Metal	Mercury	Dissolved	=	100	%	EPA 245.1	-88	-88	85	115	X
2010/11-4	Lab	LCS, rec	3/3/2011	Metal	Mercury	Dissolved	=	106	%	EPA 245.1	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/3/2011	Metal	Mercury	Dissolved	DNQ	11	ng/L	EPA 245.1	3.9	50			IP
2010/11-4	Lab	method blank	3/3/2011	Metal	Mercury	Dissolved	DNQ	14	ng/L	EPA 245.1	3.9	50			IP
2010/11-4	MO-FIL	matrix spike	3/3/2011	Metal	Mercury	Dissolved	=	1040	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-FIL	matrix spike dup	3/3/2011	Metal	Mercury	Dissolved	=	1030	ng/L	EPA 245.1	3.9	50			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-FIL	matrix spike dup, rec	3/3/2011	Metal	Mercury	Dissolved	=	102	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-FIL	matrix spike, rec	3/3/2011	Metal	Mercury	Dissolved	=	103	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-FIL	matrix spike, RPD	3/3/2011	Metal	Mercury	Dissolved	=	1	%	EPA 245.1	-88	-88	0	20	X
2010/11-4	MO-OXN	matrix spike	3/3/2011	Metal	Mercury	Dissolved	=	1020	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-OXN	matrix spike dup	3/3/2011	Metal	Mercury	Dissolved	=	1020	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-OXN	matrix spike dup, rec	3/3/2011	Metal	Mercury	Dissolved	=	100	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-OXN	matrix spike, rec	3/3/2011	Metal	Mercury	Dissolved	=	100	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-OXN	matrix spike, RPD	3/3/2011	Metal	Mercury	Dissolved	=	0	%	EPA 245.1	-88	-88	0	20	X
2010/11-4	MO-SPA	matrix spike	3/3/2011	Metal	Mercury	Dissolved	=	948	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-SPA	matrix spike dup	3/3/2011	Metal	Mercury	Dissolved	=	888	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-SPA	matrix spike dup, rec	3/3/2011	Metal	Mercury	Dissolved	=	87	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-SPA	matrix spike, rec	3/3/2011	Metal	Mercury	Dissolved	=	93	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-SPA	matrix spike, RPD	3/3/2011	Metal	Mercury	Dissolved	=	7	%	EPA 245.1	-88	-88	0	20	X
2010/11-4	MO-VEN	matrix spike	3/3/2011	Metal	Mercury	Dissolved	=	994	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-VEN	matrix spike dup	3/3/2011	Metal	Mercury	Dissolved	=	1000	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-VEN	matrix spike dup, rec	3/3/2011	Metal	Mercury	Dissolved	=	98	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-VEN	matrix spike, rec	3/3/2011	Metal	Mercury	Dissolved	=	97	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-VEN	matrix spike, RPD	3/3/2011	Metal	Mercury	Dissolved	=	0.6	%	EPA 245.1	-88	-88	0	20	X
2010/11-4	000NONPJ	matrix spike	2/25/2011	Metal	Mercury	Total	=	3250	ng/L	EPA 245.1	3.9	50			
2010/11-4	000NONPJ	matrix spike dup	2/25/2011	Metal	Mercury	Total	=	3320	ng/L	EPA 245.1	3.9	50			
2010/11-4	000NONPJ	matrix spike dup, rec	2/25/2011	Metal	Mercury	Total	=	111	%	EPA 245.1	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	2/25/2011	Metal	Mercury	Total	=	104	%	EPA 245.1	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	2/25/2011	Metal	Mercury	Total	=	2	%	EPA 245.1	-88	-88	0	20	
2010/11-4	Lab	LCS	2/25/2011	Metal	Mercury	Total	=	1050	ng/L	EPA 245.1	3.9	50			
2010/11-4	Lab	LCS, rec	2/25/2011	Metal	Mercury	Total	=	105	%	EPA 245.1	-88	-88	85	115	
2010/11-4	Lab	method blank	2/25/2011	Metal	Mercury	Total	DNQ	4	ng/L	EPA 245.1	3.9	50			IP
2010/11-4	Lab	LCS	3/3/2011	Metal	Mercury	Total	=	999	ng/L	EPA 245.1	3.9	50			X
2010/11-4	Lab	LCS	3/3/2011	Metal	Mercury	Total	=	1060	ng/L	EPA 245.1	3.9	50			X
2010/11-4	Lab	LCS, rec	3/3/2011	Metal	Mercury	Total	=	106	%	EPA 245.1	-88	-88	85	115	X
2010/11-4	Lab	LCS, rec	3/3/2011	Metal	Mercury	Total	=	100	%	EPA 245.1	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/3/2011	Metal	Mercury	Total	DNQ	11	ng/L	EPA 245.1	3.9	50			IP
2010/11-4	Lab	method blank	3/3/2011	Metal	Mercury	Total	DNQ	14	ng/L	EPA 245.1	3.9	50			IP
2010/11-4	MO-FIL	matrix spike	3/3/2011	Metal	Mercury	Total	=	1040	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-FIL	matrix spike dup	3/3/2011	Metal	Mercury	Total	=	1030	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-FIL	matrix spike dup, rec	3/3/2011	Metal	Mercury	Total	=	101	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-FIL	matrix spike, rec	3/3/2011	Metal	Mercury	Total	=	102	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-FIL	matrix spike, RPD	3/3/2011	Metal	Mercury	Total	=	1	%	EPA 245.1	-88	-88	0	20	X
2010/11-4	MO-MEI	field blank	2/25/2011	Metal	Mercury	Total	DNQ	5	ng/L	EPA 245.1	3.9	50			
2010/11-4	MO-MEI	matrix spike	2/25/2011	Metal	Mercury	Total	=	1110	ng/L	EPA 245.1	3.9	50			
2010/11-4	MO-MEI	matrix spike dup	2/25/2011	Metal	Mercury	Total	=	1070	ng/L	EPA 245.1	3.9	50			
2010/11-4	MO-MEI	matrix spike dup, rec	2/25/2011	Metal	Mercury	Total	=	106	%	EPA 245.1	-88	-88	70	130	
2010/11-4	MO-MEI	matrix spike, rec	2/25/2011	Metal	Mercury	Total	=	110	%	EPA 245.1	-88	-88	70	130	
2010/11-4	MO-MEI	matrix spike, RPD	2/25/2011	Metal	Mercury	Total	=	4	%	EPA 245.1	-88	-88	0	20	
2010/11-4	MO-OXN	matrix spike	3/3/2011	Metal	Mercury	Total	=	1020	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-OXN	matrix spike dup	3/3/2011	Metal	Mercury	Total	=	1020	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-OXN	matrix spike dup, rec	3/3/2011	Metal	Mercury	Total	=	99	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-OXN	matrix spike, rec	3/3/2011	Metal	Mercury	Total	=	99	%	EPA 245.1	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-OXN	matrix spike, RPD	3/3/2011	Metal	Mercury	Total	=	0	%	EPA 245.1	-88	-88	0	20	X
2010/11-4	MO-SPA	matrix spike	3/3/2011	Metal	Mercury	Total	=	948	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-SPA	matrix spike dup	3/3/2011	Metal	Mercury	Total	=	888	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-SPA	matrix spike dup, rec	3/3/2011	Metal	Mercury	Total	=	86	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-SPA	matrix spike, rec	3/3/2011	Metal	Mercury	Total	=	92	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-SPA	matrix spike, RPD	3/3/2011	Metal	Mercury	Total	=	7	%	EPA 245.1	-88	-88	0	20	X
2010/11-4	MO-VEN	matrix spike	3/3/2011	Metal	Mercury	Total	=	994	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-VEN	matrix spike dup	3/3/2011	Metal	Mercury	Total	=	1000	ng/L	EPA 245.1	3.9	50			X
2010/11-4	MO-VEN	matrix spike dup, rec	3/3/2011	Metal	Mercury	Total	=	97	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-VEN	matrix spike, rec	3/3/2011	Metal	Mercury	Total	=	96	%	EPA 245.1	-88	-88	70	130	X
2010/11-4	MO-VEN	matrix spike, RPD	3/3/2011	Metal	Mercury	Total	=	0.6	%	EPA 245.1	-88	-88	0	20	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Nickel	Dissolved	=	52.7	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Nickel	Dissolved	=	51.2	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Nickel	Dissolved	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Nickel	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Nickel	Dissolved	=	3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Nickel	Dissolved	=	50.1	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Nickel	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Nickel	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Nickel	Dissolved	=	52.2	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Nickel	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Nickel	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Nickel	Dissolved	=	56.5	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Nickel	Dissolved	=	57.3	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Nickel	Dissolved	=	105	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Nickel	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Nickel	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Nickel	Dissolved	=	47.8	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Nickel	Dissolved	=	46.1	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Nickel	Dissolved	=	88	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Nickel	Dissolved	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Nickel	Dissolved	=	4	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Nickel	Total	=	52.7	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Nickel	Total	=	51.2	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Nickel	Total	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Nickel	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Nickel	Total	=	3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Nickel	Total	=	50.1	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Nickel	Total	=	100	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Nickel	Total	<	0.011	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Nickel	Total	=	52.2	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Nickel	Total	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Nickel	Total	<	0.011	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Nickel	Total	=	56.5	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Nickel	Total	=	57.3	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Nickel	Total	=	95	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Nickel	Total	=	93	%	EPA 200.8	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Nickel	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Nickel	Total	=	92	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Nickel	Total	=	88.8	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Nickel	Total	=	78	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Nickel	Total	=	85	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Nickel	Total	=	3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Nickel	Total	=	47.8	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Nickel	Total	=	46.1	µg/L	EPA 200.8	0.011	0.8			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Nickel	Total	=	86	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Nickel	Total	=	89	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Nickel	Total	=	4	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Selenium	Dissolved	=	50.4	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Selenium	Dissolved	=	51.7	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Selenium	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Selenium	Dissolved	=	101	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Selenium	Dissolved	=	3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Selenium	Dissolved	=	44.2	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Selenium	Dissolved	=	88	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Selenium	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Selenium	Dissolved	=	54.2	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Selenium	Dissolved	=	109	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Selenium	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Selenium	Dissolved	=	50.8	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Selenium	Dissolved	=	50.1	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Selenium	Dissolved	=	98	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Selenium	Dissolved	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Selenium	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Selenium	Dissolved	=	50.2	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Selenium	Dissolved	=	50.9	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Selenium	Dissolved	=	95	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Selenium	Dissolved	=	94	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Selenium	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Selenium	Dissolved	=	46.6	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Selenium	Dissolved	=	45.4	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Selenium	Dissolved	=	90	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Selenium	Dissolved	=	93	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Selenium	Dissolved	=	3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Selenium	Total	=	50.4	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Selenium	Total	=	51.7	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Selenium	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Selenium	Total	=	101	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Selenium	Total	=	3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Selenium	Total	=	44.2	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Selenium	Total	=	88	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Selenium	Total	<	0.017	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Selenium	Total	=	54.2	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Selenium	Total	=	109	%	EPA 200.8	-88	-88	85	115	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	method blank	3/2/2011	Metal	Selenium	Total	<	0.017	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Selenium	Total	=	50.8	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Selenium	Total	=	50.1	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Selenium	Total	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Selenium	Total	=	98	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Selenium	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Selenium	Total	=	50.2	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Selenium	Total	=	50.9	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Selenium	Total	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Selenium	Total	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Selenium	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Selenium	Total	=	46.6	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Selenium	Total	=	45.4	µg/L	EPA 200.8	0.017	0.4			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Selenium	Total	=	90	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Selenium	Total	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Selenium	Total	=	3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Silver	Dissolved	=	51.6	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Silver	Dissolved	=	52.1	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Silver	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Silver	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Silver	Dissolved	=	0.9	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Silver	Dissolved	=	51.8	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Silver	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Silver	Dissolved	DNQ	0.0479	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Silver	Dissolved	=	49.7	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Silver	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Silver	Dissolved	DNQ	0.0652	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Silver	Dissolved	=	48.4	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Silver	Dissolved	=	49	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Silver	Dissolved	=	98	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Silver	Dissolved	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Silver	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Silver	Dissolved	=	46.1	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Silver	Dissolved	=	45.5	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Silver	Dissolved	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Silver	Dissolved	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Silver	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Silver	Dissolved	=	45.1	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Silver	Dissolved	=	44.2	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Silver	Dissolved	=	88	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Silver	Dissolved	=	90	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Silver	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Silver	Total	=	51.6	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Silver	Total	=	52.1	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Silver	Total	=	104	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Silver	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Silver	Total	=	0.9	%	EPA 200.8	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS	3/1/2011	Metal	Silver	Total	=	51.8	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Silver	Total	=	104	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Silver	Total	DNQ	0.0479	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Silver	Total	=	49.7	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Silver	Total	=	99	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Silver	Total	DNQ	0.0652	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Silver	Total	=	48.4	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Silver	Total	=	49	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Silver	Total	=	98	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Silver	Total	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Silver	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Silver	Total	=	46.1	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Silver	Total	=	45.5	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Silver	Total	=	91	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Silver	Total	=	92	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Silver	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Silver	Total	=	45.1	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Silver	Total	=	44.2	µg/L	EPA 200.8	0.008	0.2			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Silver	Total	=	88	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Silver	Total	=	90	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Silver	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Thallium	Dissolved	=	50.9	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Thallium	Dissolved	=	51.2	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Thallium	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Thallium	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Thallium	Dissolved	=	0.5	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Thallium	Dissolved	=	50.7	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Thallium	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Thallium	Dissolved	=	48.4	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Thallium	Dissolved	=	97	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Thallium	Dissolved	=	53.2	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Thallium	Dissolved	=	54.1	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Thallium	Dissolved	=	108	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Thallium	Dissolved	=	106	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Thallium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Thallium	Dissolved	=	49.8	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Thallium	Dissolved	=	48.7	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Thallium	Dissolved	=	97	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Thallium	Dissolved	=	100	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Thallium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Thallium	Dissolved	=	51.6	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Thallium	Dissolved	=	50.8	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Thallium	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Thallium	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Thallium	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Thallium	Total	=	50.9	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Thallium	Total	=	51.2	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Thallium	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Thallium	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Thallium	Total	=	0.5	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Thallium	Total	=	50.7	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Thallium	Total	=	101	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	Lab	LCS	3/2/2011	Metal	Thallium	Total	=	48.4	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Thallium	Total	=	97	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Thallium	Total	=	53.2	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Thallium	Total	=	54.1	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Thallium	Total	=	108	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Thallium	Total	=	106	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Thallium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Thallium	Total	=	49.8	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Thallium	Total	=	48.7	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Thallium	Total	=	96	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Thallium	Total	=	99	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Thallium	Total	=	2	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Thallium	Total	=	51.6	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Thallium	Total	=	50.8	µg/L	EPA 200.8	0.02	0.2			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Thallium	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Thallium	Total	=	103	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Thallium	Total	=	1	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Zinc	Dissolved	=	76.4	µg/L	EPA 200.8	0.3	5			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Zinc	Dissolved	=	76.6	µg/L	EPA 200.8	0.3	5			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Zinc	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Zinc	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Zinc	Dissolved	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Zinc	Dissolved	=	46.2	µg/L	EPA 200.8	0.3	5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Zinc	Dissolved	=	92	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Zinc	Dissolved	DNQ	0.31	µg/L	EPA 200.8	0.3	5			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Zinc	Dissolved	=	53.4	µg/L	EPA 200.8	0.3	5			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Zinc	Dissolved	=	107	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Zinc	Dissolved	DNQ	0.544	µg/L	EPA 200.8	0.3	5			IP
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Zinc	Dissolved	=	70.9	µg/L	EPA 200.8	0.3	5			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Zinc	Dissolved	=	71.3	µg/L	EPA 200.8	0.3	5			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Zinc	Dissolved	=	118	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Zinc	Dissolved	=	117	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Zinc	Dissolved	=	0.5	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Zinc	Dissolved	=	68.8	µg/L	EPA 200.8	0.3	5			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Zinc	Dissolved	=	68.2	µg/L	EPA 200.8	0.3	5			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Zinc	Dissolved	=	125	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Zinc	Dissolved	=	126	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Zinc	Dissolved	=	0.9	%	EPA 200.8	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike	3/1/2011	Metal	Zinc	Total	=	76.4	µg/L	EPA 200.8	0.3	5			X
2010/11-4	000NONPJ	matrix spike dup	3/1/2011	Metal	Zinc	Total	=	76.6	µg/L	EPA 200.8	0.3	5			X
2010/11-4	000NONPJ	matrix spike dup, rec	3/1/2011	Metal	Zinc	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	3/1/2011	Metal	Zinc	Total	=	102	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	3/1/2011	Metal	Zinc	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Metal	Zinc	Total	=	46.2	µg/L	EPA 200.8	0.3	5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Metal	Zinc	Total	=	92	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/1/2011	Metal	Zinc	Total	DNQ	0.31	µg/L	EPA 200.8	0.3	5			IP
2010/11-4	Lab	LCS	3/2/2011	Metal	Zinc	Total	=	53.4	µg/L	EPA 200.8	0.3	5			X
2010/11-4	Lab	LCS, rec	3/2/2011	Metal	Zinc	Total	=	107	%	EPA 200.8	-88	-88	85	115	X
2010/11-4	Lab	method blank	3/2/2011	Metal	Zinc	Total	DNQ	0.544	µg/L	EPA 200.8	0.3	5			IP
2010/11-4	ME-CC	matrix spike	3/1/2011	Metal	Zinc	Total	=	70.9	µg/L	EPA 200.8	0.3	5			X
2010/11-4	ME-CC	matrix spike dup	3/1/2011	Metal	Zinc	Total	=	71.3	µg/L	EPA 200.8	0.3	5			X
2010/11-4	ME-CC	matrix spike dup, rec	3/1/2011	Metal	Zinc	Total	=	87	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, rec	3/1/2011	Metal	Zinc	Total	=	86	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-CC	matrix spike, RPD	3/1/2011	Metal	Zinc	Total	=	0.5	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	ME-SCR	matrix spike	3/2/2011	Metal	Zinc	Total	=	149	µg/L	EPA 200.8	0.3	5			X
2010/11-4	ME-SCR	matrix spike dup	3/2/2011	Metal	Zinc	Total	=	149	µg/L	EPA 200.8	0.3	5			X
2010/11-4	ME-SCR	matrix spike dup, rec	3/2/2011	Metal	Zinc	Total	=	88	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, rec	3/2/2011	Metal	Zinc	Total	=	89	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	ME-SCR	matrix spike, RPD	3/2/2011	Metal	Zinc	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	MO-HUE	matrix spike	3/2/2011	Metal	Zinc	Total	=	68.8	µg/L	EPA 200.8	0.3	5			X
2010/11-4	MO-HUE	matrix spike dup	3/2/2011	Metal	Zinc	Total	=	68.2	µg/L	EPA 200.8	0.3	5			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/2/2011	Metal	Zinc	Total	=	85	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, rec	3/2/2011	Metal	Zinc	Total	=	86	%	EPA 200.8	-88	-88	70	130	X
2010/11-4	MO-HUE	matrix spike, RPD	3/2/2011	Metal	Zinc	Total	=	0.9	%	EPA 200.8	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/4/2011	Nutrient	Ammonia as N	n/a	=	1.09	mg/L	EPA 350.1	0.048	0.1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Nutrient	Ammonia as N	n/a	=	109	%	EPA 350.1	-88	-88	90	110	X
2010/11-4	Lab	method blank	3/4/2011	Nutrient	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1			X
2010/11-4	ME-CC	matrix spike	3/4/2011	Nutrient	Ammonia as N	n/a	=	1.15	mg/L	EPA 350.1	0.048	0.1			X
2010/11-4	ME-CC	matrix spike dup	3/4/2011	Nutrient	Ammonia as N	n/a	=	1.19	mg/L	EPA 350.1	0.048	0.1			X
2010/11-4	ME-CC	matrix spike dup, rec	3/4/2011	Nutrient	Ammonia as N	n/a	=	104	%	EPA 350.1	-88	-88	90	110	X
2010/11-4	ME-CC	matrix spike, rec	3/4/2011	Nutrient	Ammonia as N	n/a	=	100	%	EPA 350.1	-88	-88	90	110	X
2010/11-4	ME-CC	matrix spike, RPD	3/4/2011	Nutrient	Ammonia as N	n/a	=	3	%	EPA 350.1	-88	-88	0	10	X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Nutrient	Ammonia as N	n/a	=	1.35	mg/L	EPA 350.1	0.048	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Nutrient	Ammonia as N	n/a	=	1.35	mg/L	EPA 350.1	0.048	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Nutrient	Ammonia as N	n/a	=	104	%	EPA 350.1	-88	-88	90	110	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Nutrient	Ammonia as N	n/a	=	104	%	EPA 350.1	-88	-88	90	110	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Nutrient	Ammonia as N	n/a	=	0	%	EPA 350.1	-88	-88	0	10	X
2010/11-4	000NONPJ	matrix spike	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	1.81	mg/L	EPA 353.2	0.01	0.1			X
2010/11-4	000NONPJ	matrix spike	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	1.91	mg/L	EPA 353.2	0.01	0.1			X
2010/11-4	000NONPJ	matrix spike	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	2.38	mg/L	EPA 353.2	0.01	0.1			X
2010/11-4	000NONPJ	matrix spike	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	4.04	mg/L	EPA 353.2	0.01	0.1			X
2010/11-4	000NONPJ	matrix spike dup	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	1.96	mg/L	EPA 353.2	0.01	0.1			X
2010/11-4	000NONPJ	matrix spike dup	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	1.83	mg/L	EPA 353.2	0.01	0.1			X
2010/11-4	000NONPJ	matrix spike dup	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	3.99	mg/L	EPA 353.2	0.01	0.1			X
2010/11-4	000NONPJ	matrix spike dup	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	2.41	mg/L	EPA 353.2	0.01	0.1			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike dup, rec	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	93	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike dup, rec	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	98	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike dup, rec	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	101	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike dup, rec	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	91	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike, rec	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	90	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike, rec	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	92	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike, rec	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	96	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike, rec	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	104	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike, RPD	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	2	%	EPA 353.2	-88	-88	0	20	X
2010/11-4	000NONPJ	matrix spike, RPD	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	X
2010/11-4	000NONPJ	matrix spike, RPD	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	X
2010/11-4	000NONPJ	matrix spike, RPD	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	X
2010/11-4	Lab	LCS	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	0.956	mg/L	EPA 353.2	0.01	0.1			X
2010/11-4	Lab	LCS	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	1.04	mg/L	EPA 353.2	0.01	0.1			X
2010/11-4	Lab	LCS, rec	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	104	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	Lab	LCS, rec	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	96	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	Lab	method blank	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	<	0.01	mg/L	EPA 353.2	0.01	0.1			X
2010/11-4	Lab	method blank	2/18/2011	Nutrient	Nitrate + Nitrite as N	n/a	<	0.01	mg/L	EPA 353.2	0.01	0.1			X
2010/11-4	000NONPJ	matrix spike	2/18/2011	Nutrient	Nitrate as N	n/a	=	1.91	mg/L	EPA 353.2	0.041	0.1			X
2010/11-4	000NONPJ	matrix spike	2/18/2011	Nutrient	Nitrate as N	n/a	=	2.38	mg/L	EPA 353.2	0.041	0.1			X
2010/11-4	000NONPJ	matrix spike dup	2/18/2011	Nutrient	Nitrate as N	n/a	=	1.96	mg/L	EPA 353.2	0.041	0.1			X
2010/11-4	000NONPJ	matrix spike dup	2/18/2011	Nutrient	Nitrate as N	n/a	=	2.41	mg/L	EPA 353.2	0.041	0.1			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/18/2011	Nutrient	Nitrate as N	n/a	=	93	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike dup, rec	2/18/2011	Nutrient	Nitrate as N	n/a	=	98	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike, rec	2/18/2011	Nutrient	Nitrate as N	n/a	=	92	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike, rec	2/18/2011	Nutrient	Nitrate as N	n/a	=	96	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike, RPD	2/18/2011	Nutrient	Nitrate as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	X
2010/11-4	000NONPJ	matrix spike, RPD	2/18/2011	Nutrient	Nitrate as N	n/a	=	2	%	EPA 353.2	-88	-88	0	20	X
2010/11-4	Lab	LCS	2/18/2011	Nutrient	Nitrate as N	n/a	=	1.04	mg/L	EPA 353.2	0.041	0.1			X
2010/11-4	Lab	LCS, rec	2/18/2011	Nutrient	Nitrate as N	n/a	=	104	%	EPA 353.2	-88	-88	90	110	X
2010/11-4	Lab	method blank	2/18/2011	Nutrient	Nitrate as N	n/a	<	0.041	mg/L	EPA 353.2	0.041	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	0.0511	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	Lab	LCS, rec	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	102	%	EPA 365.1	-88	-88	90	110	X
2010/11-4	Lab	method blank	3/7/2011	Nutrient	Phosphorus as P	Dissolved	<	0.0014	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	0.24	mg/L	EPA 365.1	0.0028	0.02			D,GB
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	0.244	mg/L	EPA 365.1	0.0028	0.02			D,GB
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	120	%	EPA 365.1	-88	-88	90	110	D,GB
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	112	%	EPA 365.1	-88	-88	90	110	D,GB
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	2	%	EPA 365.1	-88	-88	0	10	D,GB
2010/11-4	MO-HUE	matrix spike	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	0.0756	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	MO-HUE	matrix spike dup	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	0.0762	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	MO-HUE	matrix spike dup, rec	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	110	%	EPA 365.1	-88	-88	90	110	X
2010/11-4	MO-HUE	matrix spike, rec	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	109	%	EPA 365.1	-88	-88	90	110	X
2010/11-4	MO-HUE	matrix spike, RPD	3/7/2011	Nutrient	Phosphorus as P	Dissolved	=	0.8	%	EPA 365.1	-88	-88	0	10	X
2010/11-4	000NONPJ	matrix spike	3/7/2011	Nutrient	Phosphorus as P	Total	=	0.0515	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	000NONPJ	matrix spike	3/7/2011	Nutrient	Phosphorus as P	Total	=	0.194	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	000NONPJ	matrix spike	3/7/2011	Nutrient	Phosphorus as P	Total	=	0.0496	mg/L	EPA 365.1	0.0014	0.01			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike dup	3/7/2011	Nutrient	Phosphorus as P	Total	=	0.0502	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	000NONPJ	matrix spike dup	3/7/2011	Nutrient	Phosphorus as P	Total	=	0.0519	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	000NONPJ	matrix spike dup	3/7/2011	Nutrient	Phosphorus as P	Total	=	0.234	mg/L	EPA 365.1	0.0028	0.02			D,GB
2010/11-4	000NONPJ	matrix spike dup, rec	3/7/2011	Nutrient	Phosphorus as P	Total	=	100	%	EPA 365.1	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike dup, rec	3/7/2011	Nutrient	Phosphorus as P	Total	=	104	%	EPA 365.1	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike dup, rec	3/7/2011	Nutrient	Phosphorus as P	Total	=	180	%	EPA 365.1	-88	-88	90	110	D,GB
2010/11-4	000NONPJ	matrix spike, rec	3/7/2011	Nutrient	Phosphorus as P	Total	=	103	%	EPA 365.1	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike, rec	3/7/2011	Nutrient	Phosphorus as P	Total	=	100	%	EPA 365.1	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike, rec	3/7/2011	Nutrient	Phosphorus as P	Total	=	99	%	EPA 365.1	-88	-88	90	110	X
2010/11-4	000NONPJ	matrix spike, RPD	3/7/2011	Nutrient	Phosphorus as P	Total	=	1	%	EPA 365.1	-88	-88	0	10	X
2010/11-4	000NONPJ	matrix spike, RPD	3/7/2011	Nutrient	Phosphorus as P	Total	=	0.8	%	EPA 365.1	-88	-88	0	10	X
2010/11-4	000NONPJ	matrix spike, RPD	3/7/2011	Nutrient	Phosphorus as P	Total	=	19	%	EPA 365.1	-88	-88	0	10	D,GB
2010/11-4	Lab	LCS	3/7/2011	Nutrient	Phosphorus as P	Total	=	0.0503	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	Lab	LCS	3/7/2011	Nutrient	Phosphorus as P	Total	=	0.0483	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	Lab	LCS, rec	3/7/2011	Nutrient	Phosphorus as P	Total	=	97	%	EPA 365.1	-88	-88	90	110	X
2010/11-4	Lab	LCS, rec	3/7/2011	Nutrient	Phosphorus as P	Total	=	101	%	EPA 365.1	-88	-88	90	110	X
2010/11-4	Lab	method blank	3/7/2011	Nutrient	Phosphorus as P	Total	<	0.0014	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	Lab	method blank	3/7/2011	Nutrient	Phosphorus as P	Total	<	0.0014	mg/L	EPA 365.1	0.0014	0.01			X
2010/11-4	ME-VR2	matrix spike	3/7/2011	Nutrient	Phosphorus as P	Total	=	0.113	mg/L	EPA 365.1	0.0014	0.01			GB
2010/11-4	ME-VR2	matrix spike dup	3/7/2011	Nutrient	Phosphorus as P	Total	=	0.111	mg/L	EPA 365.1	0.0014	0.01			GB
2010/11-4	ME-VR2	matrix spike dup, rec	3/7/2011	Nutrient	Phosphorus as P	Total	=	114	%	EPA 365.1	-88	-88	90	110	GB
2010/11-4	ME-VR2	matrix spike, rec	3/7/2011	Nutrient	Phosphorus as P	Total	=	118	%	EPA 365.1	-88	-88	90	110	GB
2010/11-4	ME-VR2	matrix spike, RPD	3/7/2011	Nutrient	Phosphorus as P	Total	=	2	%	EPA 365.1	-88	-88	0	10	GB
2010/11-4	Lab	LCS	3/3/2011	Nutrient	TKN	n/a	=	1.04	mg/L	EPA 351.2	0.074	0.1			X
2010/11-4	Lab	LCS, rec	3/3/2011	Nutrient	TKN	n/a	=	104	%	EPA 351.2	-88	-88			X
2010/11-4	Lab	method blank	3/3/2011	Nutrient	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Nutrient	TKN	n/a	=	1.07	mg/L	EPA 351.2	0.074	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Nutrient	TKN	n/a	=	107	%	EPA 351.2	-88	-88			X
2010/11-4	Lab	method blank	3/7/2011	Nutrient	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1			X
2010/11-4	MO-OJA	matrix spike	3/3/2011	Nutrient	TKN	n/a	=	2.38	mg/L	EPA 351.2	0.074	0.1			X
2010/11-4	MO-OJA	matrix spike dup	3/3/2011	Nutrient	TKN	n/a	=	2.5	mg/L	EPA 351.2	0.074	0.1			X
2010/11-4	MO-OJA	matrix spike dup, rec	3/3/2011	Nutrient	TKN	n/a	=	108	%	EPA 351.2	-88	-88			X
2010/11-4	MO-OJA	matrix spike, rec	3/3/2011	Nutrient	TKN	n/a	=	96	%	EPA 351.2	-88	-88			X
2010/11-4	MO-OJA	matrix spike, RPD	3/3/2011	Nutrient	TKN	n/a	=	5	%	EPA 351.2	-88	-88	0		X
2010/11-4	MO-SIM	matrix spike	3/7/2011	Nutrient	TKN	n/a	=	2.3	mg/L	EPA 351.2	0.074	0.1			X
2010/11-4	MO-SIM	matrix spike dup	3/7/2011	Nutrient	TKN	n/a	=	2.36	mg/L	EPA 351.2	0.074	0.1			X
2010/11-4	MO-SIM	matrix spike dup, rec	3/7/2011	Nutrient	TKN	n/a	=	107	%	EPA 351.2	-88	-88			X
2010/11-4	MO-SIM	matrix spike, rec	3/7/2011	Nutrient	TKN	n/a	=	101	%	EPA 351.2	-88	-88			X
2010/11-4	MO-SIM	matrix spike, RPD	3/7/2011	Nutrient	TKN	n/a	=	3	%	EPA 351.2	-88	-88	0		X
2010/11-4	MO-SPA	matrix spike	3/7/2011	Nutrient	TKN	n/a	=	2.78	mg/L	EPA 351.2	0.074	0.1			X
2010/11-4	MO-SPA	matrix spike dup	3/7/2011	Nutrient	TKN	n/a	=	2.69	mg/L	EPA 351.2	0.074	0.1			X
2010/11-4	MO-SPA	matrix spike dup, rec	3/7/2011	Nutrient	TKN	n/a	=	87	%	EPA 351.2	-88	-88			X
2010/11-4	MO-SPA	matrix spike, rec	3/7/2011	Nutrient	TKN	n/a	=	96	%	EPA 351.2	-88	-88			X
2010/11-4	MO-SPA	matrix spike, RPD	3/7/2011	Nutrient	TKN	n/a	=	3	%	EPA 351.2	-88	-88	0		X
2010/11-4	Lab	LCS	3/8/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	30.4	µg/L	EPA 625	0.26	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	61	%	EPA 625	-88	-88	44	142	X
2010/11-4	Lab	method blank	3/8/2011	Organic	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	28.9	µg/L	EPA 625	0.26	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	35.9	µg/L	EPA 625	0.26	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	72	%	EPA 625	-88	-88	44	142	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	58	%	EPA 625	-88	-88	44	142	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	22	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	1,2-Dichlorobenzene	n/a	=	33.2	µg/L	EPA 625	0.3	2			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	1,2-Dichlorobenzene	n/a	=	66	%	EPA 625	-88	-88	32	129	X
2010/11-4	Lab	method blank	3/8/2011	Organic	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	1,2-Dichlorobenzene	n/a	=	31.1	µg/L	EPA 625	0.3	2			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	1,2-Dichlorobenzene	n/a	=	37.9	µg/L	EPA 625	0.3	2			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	1,2-Dichlorobenzene	n/a	=	76	%	EPA 625	-88	-88	32	129	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	1,2-Dichlorobenzene	n/a	=	62	%	EPA 625	-88	-88	32	129	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	1,2-Dichlorobenzene	n/a	=	20	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	srgt LCS	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.4	µg/L	EPA 524.2	0	0			
2010/11-4	Lab	srgt LCS dup	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.5	µg/L	EPA 524.2	0	0			
2010/11-4	Lab	srgt LCS dup, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	105	%	EPA 524.2	-88	-88	70	130	
2010/11-4	Lab	srgt LCS, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	104	%	EPA 524.2	-88	-88	70	130	
2010/11-4	Lab	srgt method blank	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	7.23	µg/L	EPA 524.2	0	0			
2010/11-4	Lab	srgt method blank, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	72	%	EPA 524.2	-88	-88	70	130	
2010/11-4	ME-CC	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	8	µg/L	EPA 524.2	0	0			
2010/11-4	ME-CC	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	80	%	EPA 524.2	-88	-88	70	130	
2010/11-4	ME-SCR	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	8.4	µg/L	EPA 524.2	0	0			
2010/11-4	ME-SCR	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	84	%	EPA 524.2	-88	-88	70	130	
2010/11-4	ME-VR2	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	7.84	µg/L	EPA 524.2	0	0			
2010/11-4	ME-VR2	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	78	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-CAM	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	7.77	µg/L	EPA 524.2	0	0			
2010/11-4	MO-CAM	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	78	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-FIL	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	8.17	µg/L	EPA 524.2	0	0			
2010/11-4	MO-FIL	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	82	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-HUE	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	8.09	µg/L	EPA 524.2	0	0			
2010/11-4	MO-HUE	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	81	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-MEI	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	8.49	µg/L	EPA 524.2	0	0			
2010/11-4	MO-MEI	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	85	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-MPK	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	7.97	µg/L	EPA 524.2	0	0			
2010/11-4	MO-MPK	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	80	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-OJA	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	8.13	µg/L	EPA 524.2	0	0			
2010/11-4	MO-OJA	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	81	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-OXN	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	7.88	µg/L	EPA 524.2	0	0			
2010/11-4	MO-OXN	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	79	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-SIM	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	7.93	µg/L	EPA 524.2	0	0			
2010/11-4	MO-SIM	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	79	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-SPA	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	8.25	µg/L	EPA 524.2	0	0			
2010/11-4	MO-SPA	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	82	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-THO	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	7.96	µg/L	EPA 524.2	0	0			
2010/11-4	MO-THO	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	80	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-VEN	srgt environ	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.7	µg/L	EPA 524.2	0	0			
2010/11-4	MO-VEN	srgt environ, rec	2/18/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	107	%	EPA 524.2	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	method blank	3/8/2011	Organic	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1			X
2010/11-4	Lab	LCS	3/8/2011	Organic	1,3-Dichlorobenzene	n/a	=	32.6	µg/L	EPA 625	0.36	1			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	1,3-Dichlorobenzene	n/a	=	65	%	EPA 625	-88	-88	0.1	172	X
2010/11-4	Lab	method blank	3/8/2011	Organic	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	1,3-Dichlorobenzene	n/a	=	29.6	µg/L	EPA 625	0.36	1			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	1,3-Dichlorobenzene	n/a	=	37.3	µg/L	EPA 625	0.36	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	1,3-Dichlorobenzene	n/a	=	75	%	EPA 625	-88	-88	0.1	172	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	1,3-Dichlorobenzene	n/a	=	59	%	EPA 625	-88	-88	0.1	172	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	1,3-Dichlorobenzene	n/a	=	23	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	srgt LCS	2/25/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.454	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS dup	2/25/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.478	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	2/25/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	96	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	srgt LCS, rec	2/25/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	91	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	srgt method blank	2/25/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.474	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	2/25/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	95	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	srgt LCS	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.453	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS dup	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.497	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	99	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	srgt LCS, rec	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	91	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	srgt method blank	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.261	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	52	%	EPA 525.2	-88	-88	73	136	GN
2010/11-4	Lab	srgt LCS	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.471	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	94	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	srgt method blank	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.469	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	94	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	srgt LCS dup	3/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.39	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	78	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	srgt LCS	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.06	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	srgt method blank	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.7	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	94	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	srgt LCS	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.96	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	99	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	srgt method blank	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.06	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	ME-CC	srgt environ	2/25/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.493	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	2/25/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	99	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	ME-CC	srgt environ	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.62	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	97	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	ME-SCR	srgt environ	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.431	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	86	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	ME-SCR	srgt environ	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.45	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	109	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	ME-VR2	srgt environ	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.472	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	94	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	ME-VR2	srgt environ	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.23	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	105	%	EPA 525.2	-88	-88	73	136	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-CAM	srgt environ	2/25/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.488	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	2/25/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	98	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-CAM	srgt environ	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.18	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	104	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-CAM	srgt matrix spike	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.06	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.94	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	99	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-CAM	srgt matrix spike	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.96	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.82	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	96	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	99	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-FIL	srgt environ	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.489	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	98	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-FIL	srgt environ	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.75	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	98	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-HUE	srgt environ	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.487	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	97	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-HUE	srgt environ	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	6.98	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-HUE	srgt environ, rec	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	140	%	EPA 525.2	-88	-88	73	136	GN
2010/11-4	MO-MEI	srgt environ	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.493	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	99	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-MEI	srgt environ	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.16	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	107	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-MPK	srgt environ	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.527	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	105	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-MPK	srgt environ	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.59	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	112	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-OJA	srgt environ	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.482	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	96	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-OJA	srgt environ	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	103	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-OXN	srgt environ	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.486	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	97	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-OXN	srgt environ	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.61	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	95	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-SIM	srgt environ	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.477	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	95	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-SIM	srgt environ	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.56	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	111	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-SPA	srgt environ	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.504	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/1/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-SPA	srgt environ	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.04	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-THO	srgt environ	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.465	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	93	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-THO	srgt environ	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.3	µg/L	EPA 525.2	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-THO	srgt environ, rec	3/4/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	106	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-VEN	srgt environ	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.495	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/2/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	99	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	MO-VEN	srgt environ	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.74	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/7/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	98	%	EPA 525.2	-88	-88	73	136	X
2010/11-4	Lab	LCS	3/8/2011	Organic	1,4-Dichlorobenzene	n/a	=	33.8	µg/L	EPA 625	0.32	1			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	1,4-Dichlorobenzene	n/a	=	68	%	EPA 625	-88	-88	20	124	X
2010/11-4	Lab	method blank	3/8/2011	Organic	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	1,4-Dichlorobenzene	n/a	=	30.7	µg/L	EPA 625	0.32	1			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	1,4-Dichlorobenzene	n/a	=	38.5	µg/L	EPA 625	0.32	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	1,4-Dichlorobenzene	n/a	=	77	%	EPA 625	-88	-88	20	124	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	1,4-Dichlorobenzene	n/a	=	61	%	EPA 625	-88	-88	20	124	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	1,4-Dichlorobenzene	n/a	=	22	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Organic	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1			X
2010/11-4	Lab	srgt LCS	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.48	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS dup	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	6.19	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	62	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	Lab	srgt LCS, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	85	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	Lab	srgt method blank	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	6.36	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	64	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	Lab	srgt LCS	3/8/2011	Organic	2,4,6-Tribromophenol	n/a	=	76.8	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/8/2011	Organic	2,4,6-Tribromophenol	n/a	=	77	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	Lab	srgt method blank	3/8/2011	Organic	2,4,6-Tribromophenol	n/a	=	80.3	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/8/2011	Organic	2,4,6-Tribromophenol	n/a	=	80	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	ME-CC	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	7.46	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	75	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	ME-CC	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	85.2	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	85	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	ME-SCR	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.9	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	89	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	ME-SCR	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	59	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	59	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	ME-VR2	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.83	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	88	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	ME-VR2	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	79.4	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	79	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-CAM	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.88	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	89	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	MO-CAM	srgt matrix spike	3/8/2011	Organic	2,4,6-Tribromophenol	n/a	=	83.4	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/8/2011	Organic	2,4,6-Tribromophenol	n/a	=	81.4	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/8/2011	Organic	2,4,6-Tribromophenol	n/a	=	81	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/8/2011	Organic	2,4,6-Tribromophenol	n/a	=	83	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-CAM	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	87.5	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	88	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-FIL	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.99	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	90	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	MO-FIL	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	88.7	µg/L	EPA 625	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-FIL	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	89	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-HUE	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.59	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	86	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	MO-HUE	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	86.5	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	87	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-MEI	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.08	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	81	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	MO-MEI	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	73.4	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	73	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-MPK	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	7.67	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	58	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	MO-MPK	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	78.2	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	78	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-OJA	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	7.99	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	80	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	MO-OJA	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	80.2	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	80	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-OXN	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	6.72	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	67	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	MO-OXN	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	85.3	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	85	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-SIM	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.23	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	82	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	MO-SIM	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	93.7	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	94	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-SPA	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.53	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	85	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	MO-SPA	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	79.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	80	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-THO	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.83	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	88	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	MO-THO	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	78.5	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	79	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	MO-VEN	srgt environ	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.21	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/1/2011	Organic	2,4,6-Tribromophenol	n/a	=	82	%	EPA 8270Cm	-88	-88	44	115	X
2010/11-4	MO-VEN	srgt environ	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	82.3	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/9/2011	Organic	2,4,6-Tribromophenol	n/a	=	82	%	EPA 625	-88	-88	0.1	157	X
2010/11-4	Lab	LCS	3/1/2011	Organic	2,4,6-Trichlorophenol	n/a	=	4.44	µg/L	EPA 8270Cm	0.3	1			X
2010/11-4	Lab	LCS dup	3/1/2011	Organic	2,4,6-Trichlorophenol	n/a	=	3.48	µg/L	EPA 8270Cm	0.3	1			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Organic	2,4,6-Trichlorophenol	n/a	=	70	%	EPA 8270Cm	-88	-88	52	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	2,4,6-Trichlorophenol	n/a	=	89	%	EPA 8270Cm	-88	-88	52	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Organic	2,4,6-Trichlorophenol	n/a	=	24	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Organic	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			X
2010/11-4	Lab	LCS	3/1/2011	Organic	2,4-Dichlorophenol	n/a	=	4.31	µg/L	EPA 8270Cm	0.51	1			X
2010/11-4	Lab	LCS dup	3/1/2011	Organic	2,4-Dichlorophenol	n/a	=	3.18	µg/L	EPA 8270Cm	0.51	1			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Organic	2,4-Dichlorophenol	n/a	=	64	%	EPA 8270Cm	-88	-88	53	106	X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	2,4-Dichlorophenol	n/a	=	86	%	EPA 8270Cm	-88	-88	53	106	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS, RPD	3/1/2011	Organic	2,4-Dichlorophenol	n/a	=	30	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Organic	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1			X
2010/11-4	ison RC pipe at M	srgt environ	3/8/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	11.8	µg/L	EPA 515.3	-88	-88			
2010/11-4	ison RC pipe at M	srgt environ, rec	3/8/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	118	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	srgt LCS	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.8	µg/L	EPA 515.3	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	98	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	srgt matrix spike	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10	µg/L	EPA 515.3	-88	-88			X
2010/11-4	Lab	srgt matrix spike dup	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.98	µg/L	EPA 515.3	-88	-88			X
2010/11-4	Lab	srgt matrix spike dup, rec	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	100	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	srgt matrix spike, rec	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	100	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	srgt method blank	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.3	µg/L	EPA 515.3	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	103	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	srgt LCS	3/8/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.5	µg/L	EPA 515.3	-88	-88			
2010/11-4	Lab	srgt LCS, rec	3/8/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	105	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	srgt matrix spike	3/8/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.6	µg/L	EPA 515.3	-88	-88			
2010/11-4	Lab	srgt matrix spike dup	3/8/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.1	µg/L	EPA 515.3	-88	-88			
2010/11-4	Lab	srgt matrix spike dup, rec	3/8/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	101	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	srgt matrix spike, rec	3/8/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	106	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	srgt method blank	3/8/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	11.1	µg/L	EPA 515.3	-88	-88			
2010/11-4	Lab	srgt method blank, rec	3/8/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	111	%	EPA 515.3	-88	-88	70	130	
2010/11-4	ME-CC	srgt environ	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.65	µg/L	EPA 515.3	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	ME-SCR	srgt environ	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.5	µg/L	EPA 515.3	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	105	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	ME-VR2	srgt environ	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.3	µg/L	EPA 515.3	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	103	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	MO-CAM	srgt environ	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.2	µg/L	EPA 515.3	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	102	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	MO-FIL	srgt environ	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.4	µg/L	EPA 515.3	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	104	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	MO-HUE	srgt environ	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.4	µg/L	EPA 515.3	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	104	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	MO-MEI	srgt environ	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.9	µg/L	EPA 515.3	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	109	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	MO-MPK	srgt environ	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	10.2	µg/L	EPA 515.3	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	102	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	MO-OJA	srgt environ	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	11	µg/L	EPA 515.3	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	110	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	MO-OXN	srgt environ	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	11.1	µg/L	EPA 515.3	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	111	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	MO-SIM	srgt environ	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.58	µg/L	EPA 515.3	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	MO-SPA	srgt environ	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.51	µg/L	EPA 515.3	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	95	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	MO-THO	srgt environ	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.55	µg/L	EPA 515.3	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	2/22/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	MO-VEN	srgt environ	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	11.4	µg/L	EPA 515.3	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-VEN	srgt environ, rec	2/23/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	114	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	LCS	3/1/2011	Organic	2,4-Dimethylphenol	n/a	=	4.68	µg/L	EPA 8270Cm	1	2			X
2010/11-4	Lab	LCS dup	3/1/2011	Organic	2,4-Dimethylphenol	n/a	=	3.99	µg/L	EPA 8270Cm	1	2			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Organic	2,4-Dimethylphenol	n/a	=	80	%	EPA 8270Cm	-88	-88	21	99	X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	2,4-Dimethylphenol	n/a	=	94	%	EPA 8270Cm	-88	-88	21	99	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Organic	2,4-Dimethylphenol	n/a	=	16	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Organic	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			X
2010/11-4	Lab	LCS	3/1/2011	Organic	2,4-Dinitrophenol	n/a	=	4.38	µg/L	EPA 8270Cm	1	2			X
2010/11-4	Lab	LCS dup	3/1/2011	Organic	2,4-Dinitrophenol	n/a	=	3.57	µg/L	EPA 8270Cm	1	2			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Organic	2,4-Dinitrophenol	n/a	=	71	%	EPA 8270Cm	-88	-88	2	227	X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	2,4-Dinitrophenol	n/a	=	88	%	EPA 8270Cm	-88	-88	2	227	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Organic	2,4-Dinitrophenol	n/a	=	20	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Organic	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			X
2010/11-4	Lab	LCS	3/8/2011	Organic	2,4-Dinitrotoluene	n/a	=	37.4	µg/L	EPA 625	0.4	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	2,4-Dinitrotoluene	n/a	=	75	%	EPA 625	-88	-88	39	139	X
2010/11-4	Lab	method blank	3/8/2011	Organic	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	2,4-Dinitrotoluene	n/a	=	39	µg/L	EPA 625	0.4	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	2,4-Dinitrotoluene	n/a	=	38.6	µg/L	EPA 625	0.4	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	2,4-Dinitrotoluene	n/a	=	77	%	EPA 625	-88	-88	39	139	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	2,4-Dinitrotoluene	n/a	=	78	%	EPA 625	-88	-88	39	139	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	2,4-Dinitrotoluene	n/a	=	1	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	2,6-Dinitrotoluene	n/a	=	38.6	µg/L	EPA 625	0.24	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	2,6-Dinitrotoluene	n/a	=	77	%	EPA 625	-88	-88	50	158	X
2010/11-4	Lab	method blank	3/8/2011	Organic	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	2,6-Dinitrotoluene	n/a	=	40.7	µg/L	EPA 625	0.24	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	2,6-Dinitrotoluene	n/a	=	42.3	µg/L	EPA 625	0.24	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	2,6-Dinitrotoluene	n/a	=	85	%	EPA 625	-88	-88	50	158	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	2,6-Dinitrotoluene	n/a	=	81	%	EPA 625	-88	-88	50	158	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	2,6-Dinitrotoluene	n/a	=	4	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/18/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	6.6	µg/L	EPA 524.2	0.25	1			
2010/11-4	Lab	LCS dup	2/18/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	6.61	µg/L	EPA 524.2	0.25	1			
2010/11-4	Lab	LCS dup, rec	2/18/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	110	%	EPA 524.2	-88	-88	70	130	
2010/11-4	Lab	LCS, rec	2/18/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	110	%	EPA 524.2	-88	-88	70	130	
2010/11-4	Lab	LCS, RPD	2/18/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	0.2	%	EPA 524.2	-88	-88	0	30	
2010/11-4	Lab	method blank	2/18/2011	Organic	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1			
2010/11-4	Lab	LCS	3/8/2011	Organic	2-Chloronaphthalene	n/a	=	37.8	µg/L	EPA 625	0.26	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	2-Chloronaphthalene	n/a	=	76	%	EPA 625	-88	-88	60	118	X
2010/11-4	Lab	method blank	3/8/2011	Organic	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	2-Chloronaphthalene	n/a	=	38	µg/L	EPA 625	0.26	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	2-Chloronaphthalene	n/a	=	42.2	µg/L	EPA 625	0.26	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	2-Chloronaphthalene	n/a	=	84	%	EPA 625	-88	-88	60	118	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	2-Chloronaphthalene	n/a	=	76	%	EPA 625	-88	-88	60	118	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	2-Chloronaphthalene	n/a	=	10	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	2-Chlorophenol	n/a	=	4.09	µg/L	EPA 8270Cm	0.65	1			X
2010/11-4	Lab	LCS dup	3/1/2011	Organic	2-Chlorophenol	n/a	=	3.11	µg/L	EPA 8270Cm	0.65	1			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Organic	2-Chlorophenol	n/a	=	62	%	EPA 8270Cm	-88	-88	46	92	X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	2-Chlorophenol	n/a	=	82	%	EPA 8270Cm	-88	-88	46	92	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS, RPD	3/1/2011	Organic	2-Chlorophenol	n/a	=	27	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Organic	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1			X
2010/11-4	Lab	srgt LCS	3/1/2011	Organic	2-Fluorobiphenyl	n/a	=	4.65	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/1/2011	Organic	2-Fluorobiphenyl	n/a	=	93	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	Lab	srgt method blank	3/1/2011	Organic	2-Fluorobiphenyl	n/a	=	4.17	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/1/2011	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	Lab	srgt LCS dup	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	3.39	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	68	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	Lab	srgt LCS	3/8/2011	Organic	2-Fluorobiphenyl	n/a	=	39	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/8/2011	Organic	2-Fluorobiphenyl	n/a	=	78	%	EPA 625	-88	-88	22	130	X
2010/11-4	Lab	srgt method blank	3/8/2011	Organic	2-Fluorobiphenyl	n/a	=	40.6	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/8/2011	Organic	2-Fluorobiphenyl	n/a	=	81	%	EPA 625	-88	-88	22	130	X
2010/11-4	ME-CC	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	3.6	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	72	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	ME-CC	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	43.3	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	87	%	EPA 625	-88	-88	22	130	X
2010/11-4	ME-SCR	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	4.03	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	81	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	ME-SCR	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	28.6	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	57	%	EPA 625	-88	-88	22	130	X
2010/11-4	ME-VR2	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	4.15	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	ME-VR2	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	38.4	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	77	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-CAM	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	4.24	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	85	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	MO-CAM	srgt matrix spike	3/8/2011	Organic	2-Fluorobiphenyl	n/a	=	41.4	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/8/2011	Organic	2-Fluorobiphenyl	n/a	=	42	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/8/2011	Organic	2-Fluorobiphenyl	n/a	=	84	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/8/2011	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-CAM	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	42.1	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	84	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-FIL	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	4.36	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	87	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	MO-FIL	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	44	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	88	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-HUE	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	4.21	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	84	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	MO-HUE	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	42.1	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	84	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-MEI	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	3.74	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	75	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	MO-MEI	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	36.7	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	73	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-MPK	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	3.77	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	57	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	MO-MPK	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	38.7	µg/L	EPA 625	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-MPK	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	77	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-OJA	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	3.81	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	76	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	MO-OJA	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	41	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	82	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-OXN	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	3.18	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	64	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	MO-OXN	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	41.6	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-SIM	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	3.91	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	78	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	MO-SIM	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	47.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	96	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-SPA	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	4.07	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	81	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	MO-SPA	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	40.8	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	82	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-THO	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	3.98	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	80	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	MO-THO	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	37	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	74	%	EPA 625	-88	-88	22	130	X
2010/11-4	MO-VEN	srgt environ	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	3.62	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/2/2011	Organic	2-Fluorobiphenyl	n/a	=	72	%	EPA 8270Cm	-88	-88	51	139	X
2010/11-4	MO-VEN	srgt environ	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	40.7	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/9/2011	Organic	2-Fluorobiphenyl	n/a	=	81	%	EPA 625	-88	-88	22	130	X
2010/11-4	Lab	srgt LCS	3/1/2011	Organic	2-Fluorophenol	n/a	=	4.94	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS dup	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.43	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	Lab	srgt LCS, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	49	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	Lab	srgt method blank	3/1/2011	Organic	2-Fluorophenol	n/a	=	4.11	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	41	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	Lab	srgt LCS	3/8/2011	Organic	2-Fluorophenol	n/a	=	46.6	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/8/2011	Organic	2-Fluorophenol	n/a	=	47	%	EPA 625	-88	-88	6	96	X
2010/11-4	Lab	srgt method blank	3/8/2011	Organic	2-Fluorophenol	n/a	=	53.6	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/8/2011	Organic	2-Fluorophenol	n/a	=	54	%	EPA 625	-88	-88	6	96	X
2010/11-4	ME-CC	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.1	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	31	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	ME-CC	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	51	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	51	%	EPA 625	-88	-88	6	96	X
2010/11-4	ME-SCR	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.82	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	38	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	ME-SCR	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	38.4	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	38	%	EPA 625	-88	-88	6	96	X
2010/11-4	ME-VR2	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.74	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	37	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	ME-VR2	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	43.2	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	43	%	EPA 625	-88	-88	6	96	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-CAM	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.66	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	37	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	MO-CAM	srgt matrix spike	3/8/2011	Organic	2-Fluorophenol	n/a	=	45.5	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/8/2011	Organic	2-Fluorophenol	n/a	=	43.1	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/8/2011	Organic	2-Fluorophenol	n/a	=	43	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/8/2011	Organic	2-Fluorophenol	n/a	=	46	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-CAM	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	48.1	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	48	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-FIL	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	4.13	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	41	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	MO-FIL	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	52	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	52	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-HUE	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.96	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	40	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	MO-HUE	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	45.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	46	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-MEI	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.32	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	33	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	MO-MEI	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	37.2	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	37	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-MPK	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	4.15	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	31	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	MO-MPK	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	41.4	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	41	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-OJA	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.61	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	36	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	MO-OJA	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	45.7	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	46	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-OXN	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.1	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	31	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	MO-OXN	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	48.1	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	48	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-SIM	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.56	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	36	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	MO-SIM	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	56.4	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	56	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-SPA	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.44	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	MO-SPA	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	47.1	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	47	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-THO	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.82	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	38	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	MO-THO	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	40.3	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	40	%	EPA 625	-88	-88	6	96	X
2010/11-4	MO-VEN	srgt environ	3/1/2011	Organic	2-Fluorophenol	n/a	=	3.42	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/1/2011	Organic	2-Fluorophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	24	82	X
2010/11-4	MO-VEN	srgt environ	3/9/2011	Organic	2-Fluorophenol	n/a	=	48.9	µg/L	EPA 625	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-VEN	srgt environ, rec	3/9/2011	Organic	2-Fluorophenol	n/a	=	49	%	EPA 625	-88	-88	6	96	X
2010/11-4	Lab	method blank	3/1/2011	Organic	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1			X
2010/11-4	Lab	LCS	3/1/2011	Organic	2-Nitrophenol	n/a	=	4.46	µg/L	EPA 8270Cm	0.71	1			X
2010/11-4	Lab	LCS dup	3/1/2011	Organic	2-Nitrophenol	n/a	=	3.38	µg/L	EPA 8270Cm	0.71	1			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Organic	2-Nitrophenol	n/a	=	68	%	EPA 8270Cm	-88	-88	48	197	X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	2-Nitrophenol	n/a	=	89	%	EPA 8270Cm	-88	-88	48	197	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Organic	2-Nitrophenol	n/a	=	28	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Organic	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1			X
2010/11-4	Lab	LCS	3/8/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	61.4	µg/L	EPA 625	0.3	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	123	%	EPA 625	-88	-88	0.1	262	X
2010/11-4	Lab	method blank	3/8/2011	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			GB
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			GB
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	0	%	EPA 625	-88	-88	0.1	262	GB
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	0	%	EPA 625	-88	-88	0.1	262	GB
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	0	%	EPA 625	-88	-88	0	30	GB
2010/11-4	Lab	method blank	3/1/2011	Organic	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			X
2010/11-4	Lab	LCS	3/1/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	5.31	µg/L	EPA 8270Cm	0.14	1			X
2010/11-4	Lab	LCS dup	3/1/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	3.63	µg/L	EPA 8270Cm	0.14	1			IL
2010/11-4	Lab	LCS dup, rec	3/1/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	73	%	EPA 8270Cm	-88	-88	56	227	IL
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	106	%	EPA 8270Cm	-88	-88	56	227	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	38	%	EPA 8270Cm	-88	-88	0	30	IL
2010/11-4	Lab	method blank	3/1/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1			X
2010/11-4	Lab	srgt LCS	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	9.75	µg/L	EPA 524.2	0	0			
2010/11-4	Lab	srgt LCS dup	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	9.7	µg/L	EPA 524.2	0	0			
2010/11-4	Lab	srgt LCS dup, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	97	%	EPA 524.2	-88	-88	70	130	
2010/11-4	Lab	srgt LCS, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	98	%	EPA 524.2	-88	-88	70	130	
2010/11-4	Lab	srgt method blank	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.49	µg/L	EPA 524.2	0	0			
2010/11-4	Lab	srgt method blank, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	75	%	EPA 524.2	-88	-88	70	130	
2010/11-4	ME-CC	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.81	µg/L	EPA 524.2	0	0			
2010/11-4	ME-CC	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	78	%	EPA 524.2	-88	-88	70	130	
2010/11-4	ME-SCR	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	8.32	µg/L	EPA 524.2	0	0			
2010/11-4	ME-SCR	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	83	%	EPA 524.2	-88	-88	70	130	
2010/11-4	ME-VR2	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.76	µg/L	EPA 524.2	0	0			
2010/11-4	ME-VR2	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	78	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-CAM	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.7	µg/L	EPA 524.2	0	0			
2010/11-4	MO-CAM	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	77	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-FIL	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.73	µg/L	EPA 524.2	0	0			
2010/11-4	MO-FIL	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	77	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-HUE	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.81	µg/L	EPA 524.2	0	0			
2010/11-4	MO-HUE	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	78	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-MEI	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	8.05	µg/L	EPA 524.2	0	0			
2010/11-4	MO-MEI	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	80	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-MPK	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.8	µg/L	EPA 524.2	0	0			
2010/11-4	MO-MPK	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	78	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-OJA	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.97	µg/L	EPA 524.2	0	0			
2010/11-4	MO-OJA	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	80	%	EPA 524.2	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-OXN	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.75	µg/L	EPA 524.2	0	0			
2010/11-4	MO-OXN	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	78	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-SIM	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.92	µg/L	EPA 524.2	0	0			
2010/11-4	MO-SIM	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	79	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-SPA	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.93	µg/L	EPA 524.2	0	0			
2010/11-4	MO-SPA	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	79	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-THO	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	7.77	µg/L	EPA 524.2	0	0			
2010/11-4	MO-THO	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	78	%	EPA 524.2	-88	-88	70	130	
2010/11-4	MO-VEN	srgt environ	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	9.77	µg/L	EPA 524.2	0	0			
2010/11-4	MO-VEN	srgt environ, rec	2/18/2011	Organic	4-Bromofluorobenzene	n/a	=	98	%	EPA 524.2	-88	-88	70	130	
2010/11-4	Lab	LCS	3/8/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	33.4	µg/L	EPA 625	0.23	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	67	%	EPA 625	-88	-88	56	127	X
2010/11-4	Lab	method blank	3/8/2011	Organic	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	34.4	µg/L	EPA 625	0.23	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	35.2	µg/L	EPA 625	0.23	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	70	%	EPA 625	-88	-88	56	127	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	69	%	EPA 625	-88	-88	56	127	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	2	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	4-Chloro-3-methylphenol	n/a	=	4.24	µg/L	EPA 8270Cm	0.37	1			X
2010/11-4	Lab	LCS dup	3/1/2011	Organic	4-Chloro-3-methylphenol	n/a	=	3.34	µg/L	EPA 8270Cm	0.37	1			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Organic	4-Chloro-3-methylphenol	n/a	=	67	%	EPA 8270Cm	-88	-88	51	112	X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	4-Chloro-3-methylphenol	n/a	=	85	%	EPA 8270Cm	-88	-88	51	112	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Organic	4-Chloro-3-methylphenol	n/a	=	24	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Organic	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1			X
2010/11-4	Lab	LCS	3/8/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	35.5	µg/L	EPA 625	0.24	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	71	%	EPA 625	-88	-88	25	158	X
2010/11-4	Lab	method blank	3/8/2011	Organic	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	37.5	µg/L	EPA 625	0.24	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	38.9	µg/L	EPA 625	0.24	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	78	%	EPA 625	-88	-88	25	158	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	75	%	EPA 625	-88	-88	25	158	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	4	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	4-Nitrophenol	n/a	DNQ	1.68	µg/L	EPA 8270Cm	1	2			X
2010/11-4	Lab	LCS dup	3/1/2011	Organic	4-Nitrophenol	n/a	DNQ	1.31	µg/L	EPA 8270Cm	1	2			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Organic	4-Nitrophenol	n/a	=	26	%	EPA 8270Cm	-88	-88	15	73	X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	4-Nitrophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	15	73	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Organic	4-Nitrophenol	n/a	=	25	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Organic	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			X
2010/11-4	Lab	LCS	3/1/2011	Organic	Acenaphthene	n/a	=	5.11	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Acenaphthene	n/a	=	102	%	EPA 8270Cm	-88	-88	47	145	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Acenaphthene	n/a	=	3.97	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Acenaphthene	n/a	=	79	%	EPA 8270Cm	-88	-88	47	145	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Acenaphthene	n/a	=	25	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Acenaphthylene	n/a	=	5.12	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Acenaphthylene	n/a	=	102	%	EPA 8270Cm	-88	-88	33	145	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Acenaphthylene	n/a	=	3.96	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Acenaphthylene	n/a	=	79	%	EPA 8270Cm	-88	-88	33	145	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Acenaphthylene	n/a	=	26	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Anthracene	n/a	=	5.39	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Anthracene	n/a	=	108	%	EPA 8270Cm	-88	-88	27	133	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Anthracene	n/a	=	4.34	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Anthracene	n/a	=	87	%	EPA 8270Cm	-88	-88	27	133	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Anthracene	n/a	=	22	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Benz(a)anthracene	n/a	=	4.13	µg/L	EPA 8270Cm	0.28	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Benz(a)anthracene	n/a	=	83	%	EPA 8270Cm	-88	-88	33	143	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Benz(a)anthracene	n/a	=	3.49	µg/L	EPA 8270Cm	0.28	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Benz(a)anthracene	n/a	=	70	%	EPA 8270Cm	-88	-88	33	143	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Benz(a)anthracene	n/a	=	17	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5			X
2010/11-4	Lab	LCS	3/4/2011	Organic	Benzo(a)pyrene	n/a	=	2.66	µg/L	EPA 525.2	0.073	0.1			EUM
2010/11-4	Lab	LCS, rec	3/4/2011	Organic	Benzo(a)pyrene	n/a	=	53	%	EPA 525.2	-88	-88	54	136	EUM
2010/11-4	Lab	method blank	3/4/2011	Organic	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Organic	Benzo(a)pyrene	n/a	=	3.52	µg/L	EPA 525.2	0.073	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Organic	Benzo(a)pyrene	n/a	=	70	%	EPA 525.2	-88	-88	54	136	X
2010/11-4	Lab	method blank	3/7/2011	Organic	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Organic	Benzo(a)pyrene	n/a	=	2.66	µg/L	EPA 525.2	0.073	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Organic	Benzo(a)pyrene	n/a	=	2.67	µg/L	EPA 525.2	0.073	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Organic	Benzo(a)pyrene	n/a	=	53	%	EPA 525.2	-88	-88	29	153	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Organic	Benzo(a)pyrene	n/a	=	53	%	EPA 525.2	-88	-88	29	153	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Organic	Benzo(a)pyrene	n/a	=	0.4	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Organic	Benzo(a)pyrene	n/a	=	3.52	µg/L	EPA 525.2	0.073	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Organic	Benzo(a)pyrene	n/a	=	2.75	µg/L	EPA 525.2	0.073	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Organic	Benzo(a)pyrene	n/a	=	55	%	EPA 525.2	-88	-88	29	153	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Organic	Benzo(a)pyrene	n/a	=	70	%	EPA 525.2	-88	-88	29	153	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Organic	Benzo(a)pyrene	n/a	=	25	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Benzo(b)fluoranthene	n/a	=	2.91	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Benzo(b)fluoranthene	n/a	=	58	%	EPA 8270Cm	-88	-88	24	159	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Benzo(b)fluoranthene	n/a	=	2.26	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Benzo(b)fluoranthene	n/a	=	45	%	EPA 8270Cm	-88	-88	24	159	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Benzo(b)fluoranthene	n/a	=	25	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Benzo(g,h,i)perylene	n/a	=	2.27	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Benzo(g,h,i)perylene	n/a	=	45	%	EPA 8270Cm	-88	-88	0.1	219	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Benzo(g,h,i)perylene	n/a	=	1.74	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Benzo(g,h,i)perylene	n/a	=	35	%	EPA 8270Cm	-88	-88	0.1	219	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Benzo(g,h,i)perylene	n/a	=	26	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Benzo(k)fluoranthene	n/a	=	2.51	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Benzo(k)fluoranthene	n/a	=	50	%	EPA 8270Cm	-88	-88	11	162	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Benzo(k)fluoranthene	n/a	=	2.07	µg/L	EPA 8270Cm	0.12	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Benzo(k)fluoranthene	n/a	=	41	%	EPA 8270Cm	-88	-88	11	162	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Benzo(k)fluoranthene	n/a	=	19	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	38.4	µg/L	EPA 625	0.4	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	77	%	EPA 625	-88	-88	33	184	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	40.8	µg/L	EPA 625	0.4	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	41.6	µg/L	EPA 625	0.4	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	83	%	EPA 625	-88	-88	33	184	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	82	%	EPA 625	-88	-88	33	184	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	2	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	35.8	µg/L	EPA 625	0.46	1			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	72	%	EPA 625	-88	-88	12	158	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	37.8	µg/L	EPA 625	0.46	1			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	36.4	µg/L	EPA 625	0.46	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	73	%	EPA 625	-88	-88	12	158	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	76	%	EPA 625	-88	-88	12	158	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	4	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	40.7	µg/L	EPA 625	0.48	2			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	81	%	EPA 625	-88	-88	36	166	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	42.2	µg/L	EPA 625	0.48	2			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	42.9	µg/L	EPA 625	0.48	2			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	86	%	EPA 625	-88	-88	36	166	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	84	%	EPA 625	-88	-88	36	166	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	2	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/4/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	3.99	µg/L	EPA 525.2	0.23	5			X
2010/11-4	Lab	LCS, rec	3/4/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	80	%	EPA 525.2	-88	-88	50	145	X
2010/11-4	Lab	method blank	3/4/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5			X
2010/11-4	Lab	LCS	3/7/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	4.33	µg/L	EPA 525.2	0.23	5			X
2010/11-4	Lab	LCS, rec	3/7/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	87	%	EPA 525.2	-88	-88	50	145	X
2010/11-4	Lab	method blank	3/7/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	3.99	µg/L	EPA 525.2	0.23	5			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	4.22	µg/L	EPA 525.2	0.23	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	84	%	EPA 525.2	-88	-88	28	147	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	80	%	EPA 525.2	-88	-88	28	147	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	6	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	4.33	µg/L	EPA 525.2	0.23	5			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	4.41	µg/L	EPA 525.2	0.23	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	88	%	EPA 525.2	-88	-88	28	147	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	87	%	EPA 525.2	-88	-88	28	147	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	2	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/4/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	5.53	µg/L	EPA 525.2	1.1	3			X
2010/11-4	Lab	LCS, rec	3/4/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	111	%	EPA 525.2	-88	-88	54	142	X
2010/11-4	Lab	method blank	3/4/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3			X
2010/11-4	Lab	LCS	3/7/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	6.19	µg/L	EPA 525.2	1.1	3			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS, rec	3/7/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	124	%	EPA 525.2	-88	-88	54	142	X
2010/11-4	Lab	method blank	3/7/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	5.53	µg/L	EPA 525.2	1.1	3			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	5.98	µg/L	EPA 525.2	1.1	3			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	83	%	EPA 525.2	-88	-88	23	154	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	74	%	EPA 525.2	-88	-88	23	154	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	8	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	6.19	µg/L	EPA 525.2	1.1	3			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	6.38	µg/L	EPA 525.2	1.1	3			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	91	%	EPA 525.2	-88	-88	23	154	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	87	%	EPA 525.2	-88	-88	23	154	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	3	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Butyl benzyl phthalate	n/a	=	43.7	µg/L	EPA 625	1	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Butyl benzyl phthalate	n/a	=	87	%	EPA 625	-88	-88	0.1	152	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Butyl benzyl phthalate	n/a	=	44.2	µg/L	EPA 625	1	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Butyl benzyl phthalate	n/a	=	45	µg/L	EPA 625	1	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Butyl benzyl phthalate	n/a	=	90	%	EPA 625	-88	-88	0.1	152	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Butyl benzyl phthalate	n/a	=	88	%	EPA 625	-88	-88	0.1	152	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Butyl benzyl phthalate	n/a	=	2	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Chrysene	n/a	=	3.7	µg/L	EPA 8270Cm	0.09	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Chrysene	n/a	=	74	%	EPA 8270Cm	-88	-88	17	168	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Chrysene	n/a	=	3.02	µg/L	EPA 8270Cm	0.09	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Chrysene	n/a	=	60	%	EPA 8270Cm	-88	-88	17	168	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Chrysene	n/a	=	20	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Dibenz(a,h)anthracene	n/a	=	2.6	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Dibenz(a,h)anthracene	n/a	=	52	%	EPA 8270Cm	-88	-88	0.1	227	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Dibenz(a,h)anthracene	n/a	=	1.98	µg/L	EPA 8270Cm	0.13	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Dibenz(a,h)anthracene	n/a	=	40	%	EPA 8270Cm	-88	-88	0.1	227	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Dibenz(a,h)anthracene	n/a	=	27	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Diethyl phthalate	n/a	=	38.8	µg/L	EPA 625	0.23	2			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Diethyl phthalate	n/a	=	78	%	EPA 625	-88	-88	0.1	112	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Diethyl phthalate	n/a	=	43.4	µg/L	EPA 625	0.23	2			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Diethyl phthalate	n/a	=	43.8	µg/L	EPA 625	0.23	2			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Diethyl phthalate	n/a	=	81	%	EPA 625	-88	-88	0.1	112	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Diethyl phthalate	n/a	=	80	%	EPA 625	-88	-88	0.1	112	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Diethyl phthalate	n/a	=	0.9	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Dimethyl phthalate	n/a	=	37.4	µg/L	EPA 625	0.26	2			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Dimethyl phthalate	n/a	=	75	%	EPA 625	-88	-88	0.1	112	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Dimethyl phthalate	n/a	=	39.5	µg/L	EPA 625	0.26	2			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Dimethyl phthalate	n/a	=	39.9	µg/L	EPA 625	0.26	2			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Dimethyl phthalate	n/a	=	80	%	EPA 625	-88	-88	0.1	112	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Dimethyl phthalate	n/a	=	79	%	EPA 625	-88	-88	0.1	112	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Dimethyl phthalate	n/a	=	1	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Di-n-butylphthalate	n/a	=	40.7	µg/L	EPA 625	0.53	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Di-n-butylphthalate	n/a	=	81	%	EPA 625	-88	-88	1	118	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Di-n-butylphthalate	n/a	=	42.3	µg/L	EPA 625	0.53	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Di-n-butylphthalate	n/a	=	43.5	µg/L	EPA 625	0.53	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Di-n-butylphthalate	n/a	=	87	%	EPA 625	-88	-88	1	118	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Di-n-butylphthalate	n/a	=	85	%	EPA 625	-88	-88	1	118	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Di-n-butylphthalate	n/a	=	3	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Di-n-octylphthalate	n/a	=	43.7	µg/L	EPA 625	0.28	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Di-n-octylphthalate	n/a	=	87	%	EPA 625	-88	-88	6	146	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Di-n-octylphthalate	n/a	=	48.4	µg/L	EPA 625	0.28	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Di-n-octylphthalate	n/a	=	52.2	µg/L	EPA 625	0.28	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Di-n-octylphthalate	n/a	=	104	%	EPA 625	-88	-88	6	146	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Di-n-octylphthalate	n/a	=	97	%	EPA 625	-88	-88	6	146	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Di-n-octylphthalate	n/a	=	7	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Fluoranthene	n/a	=	5.15	µg/L	EPA 8270Cm	0.2	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Fluoranthene	n/a	=	103	%	EPA 8270Cm	-88	-88	26	137	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Fluoranthene	n/a	=	4.25	µg/L	EPA 8270Cm	0.2	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Fluoranthene	n/a	=	85	%	EPA 8270Cm	-88	-88	26	137	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Fluoranthene	n/a	=	19	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Fluorene	n/a	=	5.25	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Fluorene	n/a	=	105	%	EPA 8270Cm	-88	-88	59	121	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Fluorene	n/a	=	4.14	µg/L	EPA 8270Cm	0.15	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Fluorene	n/a	=	83	%	EPA 8270Cm	-88	-88	59	121	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Fluorene	n/a	=	24	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Hexachlorobenzene	n/a	=	40.1	µg/L	EPA 625	0.15	1			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Hexachlorobenzene	n/a	=	80	%	EPA 625	-88	-88	0.1	152	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Hexachlorobenzene	n/a	=	40.9	µg/L	EPA 625	0.15	1			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Hexachlorobenzene	n/a	=	41.5	µg/L	EPA 625	0.15	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Hexachlorobenzene	n/a	=	83	%	EPA 625	-88	-88	0.1	152	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Hexachlorobenzene	n/a	=	82	%	EPA 625	-88	-88	0.1	152	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Hexachlorobenzene	n/a	=	2	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Hexachlorobutadiene	n/a	=	33.6	µg/L	EPA 625	0.41	1			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Hexachlorobutadiene	n/a	=	67	%	EPA 625	-88	-88	24	116	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Hexachlorobutadiene	n/a	=	30.8	µg/L	EPA 625	0.41	1			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Hexachlorobutadiene	n/a	=	42	µg/L	EPA 625	0.41	1			IL
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Hexachlorobutadiene	n/a	=	84	%	EPA 625	-88	-88	24	116	IL
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Hexachlorobutadiene	n/a	=	62	%	EPA 625	-88	-88	24	116	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Hexachlorobutadiene	n/a	=	31	%	EPA 625	-88	-88	0	30	IL
2010/11-4	Lab	LCS	3/8/2011	Organic	Hexachlorocyclopentadiene	n/a	=	21.8	µg/L	EPA 625	5	10			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Hexachlorocyclopentadiene	n/a	=	44	%	EPA 625	-88	-88	0.1	136	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	method blank	3/8/2011	Organic	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Hexachlorocyclopentadiene	n/a	=	19.1	µg/L	EPA 625	5	10			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Hexachlorocyclopentadiene	n/a	=	21.3	µg/L	EPA 625	5	10			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Hexachlorocyclopentadiene	n/a	=	43	%	EPA 625	-88	-88	0.1	146	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Hexachlorocyclopentadiene	n/a	=	38	%	EPA 625	-88	-88	0.1	146	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Hexachlorocyclopentadiene	n/a	=	11	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Hexachloroethane	n/a	=	33	µg/L	EPA 625	0.36	1			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Hexachloroethane	n/a	=	66	%	EPA 625	-88	-88	40	113	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Hexachloroethane	n/a	=	28.9	µg/L	EPA 625	0.36	1			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Hexachloroethane	n/a	=	38.1	µg/L	EPA 625	0.36	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Hexachloroethane	n/a	=	76	%	EPA 625	-88	-88	40	113	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Hexachloroethane	n/a	=	58	%	EPA 625	-88	-88	40	113	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Hexachloroethane	n/a	=	28	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	2.53	µg/L	EPA 8270Cm	0.1	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	51	%	EPA 8270Cm	-88	-88	0.1	171	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	1.95	µg/L	EPA 8270Cm	0.1	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	39	%	EPA 8270Cm	-88	-88	0.1	171	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	26	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Isophorone	n/a	=	37.1	µg/L	EPA 625	0.33	1			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Isophorone	n/a	=	74	%	EPA 625	-88	-88	21	196	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Isophorone	n/a	=	39.1	µg/L	EPA 625	0.33	1			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Isophorone	n/a	=	39.2	µg/L	EPA 625	0.33	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Isophorone	n/a	=	78	%	EPA 625	-88	-88	21	196	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Isophorone	n/a	=	78	%	EPA 625	-88	-88	21	196	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Isophorone	n/a	=	0.3	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/18/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	4.48	µg/L	EPA 524.2	1.1	3			
2010/11-4	Lab	LCS dup	2/18/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	4.42	µg/L	EPA 524.2	1.1	3			
2010/11-4	Lab	LCS dup, rec	2/18/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	74	%	EPA 524.2	-88	-88	70	130	
2010/11-4	Lab	LCS, rec	2/18/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	75	%	EPA 524.2	-88	-88	70	130	
2010/11-4	Lab	LCS, RPD	2/18/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	1	%	EPA 524.2	-88	-88	0	30	
2010/11-4	Lab	method blank	2/18/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3			
2010/11-4	Lab	LCS	3/1/2011	Organic	Naphthalene	n/a	=	4.97	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Naphthalene	n/a	=	99	%	EPA 8270Cm	-88	-88	21	133	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Naphthalene	n/a	=	3.87	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Naphthalene	n/a	=	77	%	EPA 8270Cm	-88	-88	21	133	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Naphthalene	n/a	=	25	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	Nitrobenzene	n/a	=	34.6	µg/L	EPA 625	0.37	1			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	Nitrobenzene	n/a	=	69	%	EPA 625	-88	-88	35	180	X
2010/11-4	Lab	method blank	3/8/2011	Organic	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	Nitrobenzene	n/a	=	36.9	µg/L	EPA 625	0.37	1			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	Nitrobenzene	n/a	=	38.4	µg/L	EPA 625	0.37	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	Nitrobenzene	n/a	=	77	%	EPA 625	-88	-88	35	180	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	Nitrobenzene	n/a	=	74	%	EPA 625	-88	-88	35	180	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	Nitrobenzene	n/a	=	4	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	srgt LCS	3/1/2011	Organic	Nitrobenzene-d5	n/a	=	4.78	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/1/2011	Organic	Nitrobenzene-d5	n/a	=	96	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	Lab	srgt method blank	3/1/2011	Organic	Nitrobenzene-d5	n/a	=	4.17	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/1/2011	Organic	Nitrobenzene-d5	n/a	=	83	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	Lab	srgt LCS dup	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.51	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	70	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	Lab	srgt LCS	3/8/2011	Organic	Nitrobenzene-d5	n/a	=	39.5	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/8/2011	Organic	Nitrobenzene-d5	n/a	=	79	%	EPA 625	-88	-88	34	139	X
2010/11-4	Lab	srgt method blank	3/8/2011	Organic	Nitrobenzene-d5	n/a	=	45.9	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/8/2011	Organic	Nitrobenzene-d5	n/a	=	92	%	EPA 625	-88	-88	34	139	X
2010/11-4	ME-CC	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.43	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	69	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	ME-CC	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	47.3	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	95	%	EPA 625	-88	-88	34	139	X
2010/11-4	ME-SCR	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	4.18	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	84	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	ME-SCR	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	31.7	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	63	%	EPA 625	-88	-88	34	139	X
2010/11-4	ME-VR2	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.9	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	78	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	ME-VR2	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	41.8	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	84	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-CAM	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.86	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	77	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	MO-CAM	srgt matrix spike	3/8/2011	Organic	Nitrobenzene-d5	n/a	=	42	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/8/2011	Organic	Nitrobenzene-d5	n/a	=	40.7	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/8/2011	Organic	Nitrobenzene-d5	n/a	=	81	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/8/2011	Organic	Nitrobenzene-d5	n/a	=	84	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-CAM	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	44.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	90	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-FIL	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	4.52	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	90	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	MO-FIL	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	47.4	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	95	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-HUE	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	4.3	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	86	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	MO-HUE	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	43.7	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	87	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-MEI	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.39	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	68	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	MO-MEI	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	40.6	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	81	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-MPK	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.82	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	57	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	MO-MPK	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	43.8	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	88	%	EPA 625	-88	-88	34	139	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-OJA	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.53	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	71	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	MO-OJA	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	43.1	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	86	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-OXN	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.4	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	68	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	MO-OXN	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	45.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	92	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-SIM	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.97	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	79	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	MO-SIM	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	53.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	108	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-SPA	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.83	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	77	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	MO-SPA	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	45.3	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	91	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-THO	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.97	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	79	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	MO-THO	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	40.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	82	%	EPA 625	-88	-88	34	139	X
2010/11-4	MO-VEN	srgt environ	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	3.82	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/2/2011	Organic	Nitrobenzene-d5	n/a	=	76	%	EPA 8270Cm	-88	-88	51	143	X
2010/11-4	MO-VEN	srgt environ	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	47.2	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/9/2011	Organic	Nitrobenzene-d5	n/a	=	94	%	EPA 625	-88	-88	34	139	X
2010/11-4	Lab	LCS	3/8/2011	Organic	N-Nitrosodimethylamine	n/a	=	21.6	µg/L	EPA 625	0.36	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	N-Nitrosodimethylamine	n/a	=	43	%	EPA 625	-88	-88	27	78	X
2010/11-4	Lab	method blank	3/8/2011	Organic	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	N-Nitrosodimethylamine	n/a	=	21.4	µg/L	EPA 625	0.36	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	N-Nitrosodimethylamine	n/a	=	20.3	µg/L	EPA 625	0.36	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	N-Nitrosodimethylamine	n/a	=	41	%	EPA 625	-88	-88	22	70	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	N-Nitrosodimethylamine	n/a	=	43	%	EPA 625	-88	-88	22	70	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	N-Nitrosodimethylamine	n/a	=	5	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	38.4	µg/L	EPA 625	0.41	5			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	77	%	EPA 625	-88	-88	0.1	230	X
2010/11-4	Lab	method blank	3/8/2011	Organic	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	42	µg/L	EPA 625	0.41	5			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	41.2	µg/L	EPA 625	0.41	5			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	82	%	EPA 625	-88	-88	0.1	230	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	84	%	EPA 625	-88	-88	0.1	230	X
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	2	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/8/2011	Organic	N-Nitrosodiphenylamine	n/a	=	31.8	µg/L	EPA 625	0.23	1			X
2010/11-4	Lab	LCS, rec	3/8/2011	Organic	N-Nitrosodiphenylamine	n/a	=	64	%	EPA 625	-88	-88	48	129	X
2010/11-4	Lab	method blank	3/8/2011	Organic	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1			X
2010/11-4	MO-CAM	matrix spike	3/8/2011	Organic	N-Nitrosodiphenylamine	n/a	=	31.3	µg/L	EPA 625	0.23	1			X
2010/11-4	MO-CAM	matrix spike dup	3/8/2011	Organic	N-Nitrosodiphenylamine	n/a	=	31.8	µg/L	EPA 625	0.23	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/8/2011	Organic	N-Nitrosodiphenylamine	n/a	=	64	%	EPA 625	-88	-88	17	138	X
2010/11-4	MO-CAM	matrix spike, rec	3/8/2011	Organic	N-Nitrosodiphenylamine	n/a	=	63	%	EPA 625	-88	-88	17	138	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-CAM	matrix spike, RPD	3/8/2011	Organic	N-Nitrosodiphenylamine	n/a	=	2	%	EPA 625	-88	-88	0	30	X
2010/11-4	Lab	srgt LCS	3/4/2011	Organic	Perylene-d12	n/a	=	2.65	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/4/2011	Organic	Perylene-d12	n/a	=	53	%	EPA 525.2	-88	-88	48	141	X
2010/11-4	Lab	srgt method blank	3/4/2011	Organic	Perylene-d12	n/a	=	4.12	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/4/2011	Organic	Perylene-d12	n/a	=	82	%	EPA 525.2	-88	-88	48	141	X
2010/11-4	Lab	srgt LCS	3/7/2011	Organic	Perylene-d12	n/a	=	3.51	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/7/2011	Organic	Perylene-d12	n/a	=	70	%	EPA 525.2	-88	-88	48	141	X
2010/11-4	Lab	srgt method blank	3/7/2011	Organic	Perylene-d12	n/a	=	5.69	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/7/2011	Organic	Perylene-d12	n/a	=	114	%	EPA 525.2	-88	-88	48	141	X
2010/11-4	ME-CC	srgt environ	3/4/2011	Organic	Perylene-d12	n/a	=	2.88	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/4/2011	Organic	Perylene-d12	n/a	=	60	%	EPA 525.2	-88	-88	48	141	X
2010/11-4	ME-SCR	srgt environ	3/4/2011	Organic	Perylene-d12	n/a	=	1.74	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	ME-SCR	srgt environ, rec	3/4/2011	Organic	Perylene-d12	n/a	=	34	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	ME-VR2	srgt environ	3/7/2011	Organic	Perylene-d12	n/a	=	3.1	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/7/2011	Organic	Perylene-d12	n/a	=	62	%	EPA 525.2	-88	-88	48	141	X
2010/11-4	MO-CAM	srgt environ	3/4/2011	Organic	Perylene-d12	n/a	=	2.3	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-CAM	srgt environ, rec	3/4/2011	Organic	Perylene-d12	n/a	=	46	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	MO-CAM	srgt matrix spike	3/4/2011	Organic	Perylene-d12	n/a	=	2.65	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/4/2011	Organic	Perylene-d12	n/a	=	2.49	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/4/2011	Organic	Perylene-d12	n/a	=	50	%	EPA 525.2	-88	-88	48	141	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/4/2011	Organic	Perylene-d12	n/a	=	53	%	EPA 525.2	-88	-88	48	141	X
2010/11-4	MO-CAM	srgt matrix spike	3/7/2011	Organic	Perylene-d12	n/a	=	3.51	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/7/2011	Organic	Perylene-d12	n/a	=	2.62	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/7/2011	Organic	Perylene-d12	n/a	=	52	%	EPA 525.2	-88	-88	48	141	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/7/2011	Organic	Perylene-d12	n/a	=	70	%	EPA 525.2	-88	-88	48	141	X
2010/11-4	MO-FIL	srgt environ	3/4/2011	Organic	Perylene-d12	n/a	=	2.16	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-FIL	srgt environ, rec	3/4/2011	Organic	Perylene-d12	n/a	=	45	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	MO-HUE	srgt environ	3/7/2011	Organic	Perylene-d12	n/a	=	1.3	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-HUE	srgt environ, rec	3/7/2011	Organic	Perylene-d12	n/a	=	26	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	MO-MEI	srgt environ	3/7/2011	Organic	Perylene-d12	n/a	=	2.11	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-MEI	srgt environ, rec	3/7/2011	Organic	Perylene-d12	n/a	=	44	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	MO-MPK	srgt environ	3/7/2011	Organic	Perylene-d12	n/a	=	1.96	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-MPK	srgt environ, rec	3/7/2011	Organic	Perylene-d12	n/a	=	39	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	MO-OJA	srgt environ	3/7/2011	Organic	Perylene-d12	n/a	=	2.13	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-OJA	srgt environ, rec	3/7/2011	Organic	Perylene-d12	n/a	=	44	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	MO-OXN	srgt environ	3/7/2011	Organic	Perylene-d12	n/a	=	1.75	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-OXN	srgt environ, rec	3/7/2011	Organic	Perylene-d12	n/a	=	36	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	MO-SIM	srgt environ	3/4/2011	Organic	Perylene-d12	n/a	=	1.54	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-SIM	srgt environ, rec	3/4/2011	Organic	Perylene-d12	n/a	=	31	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	MO-SPA	srgt environ	3/4/2011	Organic	Perylene-d12	n/a	=	1.73	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-SPA	srgt environ, rec	3/4/2011	Organic	Perylene-d12	n/a	=	35	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	MO-THO	srgt environ	3/4/2011	Organic	Perylene-d12	n/a	=	2.2	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-THO	srgt environ, rec	3/4/2011	Organic	Perylene-d12	n/a	=	44	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	MO-VEN	srgt environ	3/7/2011	Organic	Perylene-d12	n/a	=	1.71	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-VEN	srgt environ, rec	3/7/2011	Organic	Perylene-d12	n/a	=	35	%	EPA 525.2	-88	-88	48	141	GN
2010/11-4	Lab	LCS	3/1/2011	Organic	Phenanthrene	n/a	=	4.92	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Phenanthrene	n/a	=	98	%	EPA 8270Cm	-88	-88	54	120	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	method blank	3/1/2011	Organic	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Phenanthrene	n/a	=	3.95	µg/L	EPA 8270Cm	0.11	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Phenanthrene	n/a	=	79	%	EPA 8270Cm	-88	-88	54	120	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Phenanthrene	n/a	=	22	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Phenol	n/a	=	1.75	µg/L	EPA 8270Cm	0.35	1			X
2010/11-4	Lab	LCS dup	3/1/2011	Organic	Phenol	n/a	=	1.24	µg/L	EPA 8270Cm	0.35	1			IL
2010/11-4	Lab	LCS dup, rec	3/1/2011	Organic	Phenol	n/a	=	25	%	EPA 8270Cm	-88	-88	14	40	IL
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Phenol	n/a	=	35	%	EPA 8270Cm	-88	-88	14	40	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Organic	Phenol	n/a	=	34	%	EPA 8270Cm	-88	-88	0	30	IL
2010/11-4	Lab	method blank	3/1/2011	Organic	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1			X
2010/11-4	Lab	srgt LCS	3/1/2011	Organic	Phenol-d5	n/a	=	3.45	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS dup	3/1/2011	Organic	Phenol-d5	n/a	=	2.29	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/1/2011	Organic	Phenol-d5	n/a	=	23	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	Lab	srgt LCS, rec	3/1/2011	Organic	Phenol-d5	n/a	=	34	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	Lab	srgt method blank	3/1/2011	Organic	Phenol-d5	n/a	=	2.69	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/1/2011	Organic	Phenol-d5	n/a	=	27	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	Lab	srgt LCS	3/8/2011	Organic	Phenol-d5	n/a	=	29.7	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/8/2011	Organic	Phenol-d5	n/a	=	30	%	EPA 625	-88	-88	2	70	X
2010/11-4	Lab	srgt method blank	3/8/2011	Organic	Phenol-d5	n/a	=	34.5	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/8/2011	Organic	Phenol-d5	n/a	=	34	%	EPA 625	-88	-88	2	70	X
2010/11-4	ME-CC	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	1.96	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	20	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	ME-CC	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	32.7	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	33	%	EPA 625	-88	-88	2	70	X
2010/11-4	ME-SCR	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.38	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	24	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	ME-SCR	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	25.7	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	26	%	EPA 625	-88	-88	2	70	X
2010/11-4	ME-VR2	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.42	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	24	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	ME-VR2	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	27.9	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	28	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-CAM	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.25	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	22	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	MO-CAM	srgt matrix spike	3/8/2011	Organic	Phenol-d5	n/a	=	29.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/8/2011	Organic	Phenol-d5	n/a	=	28.1	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/8/2011	Organic	Phenol-d5	n/a	=	28	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/8/2011	Organic	Phenol-d5	n/a	=	30	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-CAM	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	32	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	32	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-FIL	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.71	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	27	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	MO-FIL	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	12.3	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	12	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-HUE	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.64	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	26	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	MO-HUE	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	9.2	µg/L	EPA 625	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-HUE	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	9	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-MEI	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.09	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	21	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	MO-MEI	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	24.3	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	24	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-MPK	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.79	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	21	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	MO-MPK	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	27.2	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	27	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-OJA	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.13	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	21	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	MO-OJA	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	30.3	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	30	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-OXN	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	1.88	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	19	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	MO-OXN	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	30.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	31	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-SIM	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.15	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	22	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	MO-SIM	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	36.5	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	37	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-SPA	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.13	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	21	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	MO-SPA	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	29.6	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	30	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-THO	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.55	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	26	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	MO-THO	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	26.6	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	27	%	EPA 625	-88	-88	2	70	X
2010/11-4	MO-VEN	srgt environ	3/1/2011	Organic	Phenol-d5	n/a	=	2.07	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/1/2011	Organic	Phenol-d5	n/a	=	21	%	EPA 8270Cm	-88	-88	13	58	X
2010/11-4	MO-VEN	srgt environ	3/9/2011	Organic	Phenol-d5	n/a	=	31.4	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/9/2011	Organic	Phenol-d5	n/a	=	31	%	EPA 625	-88	-88	2	70	X
2010/11-4	Lab	srgt LCS	3/1/2011	Organic	p-Terphenyl-d14	n/a	=	4.26	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/1/2011	Organic	p-Terphenyl-d14	n/a	=	85	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	Lab	srgt method blank	3/1/2011	Organic	p-Terphenyl-d14	n/a	=	4.01	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/1/2011	Organic	p-Terphenyl-d14	n/a	=	80	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	Lab	srgt LCS dup	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.34	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	67	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	Lab	srgt LCS	3/8/2011	Organic	p-Terphenyl-d14	n/a	=	43.7	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/8/2011	Organic	p-Terphenyl-d14	n/a	=	87	%	EPA 625	-88	-88	6	145	X
2010/11-4	Lab	srgt method blank	3/8/2011	Organic	p-Terphenyl-d14	n/a	=	45.1	µg/L	EPA 625	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/8/2011	Organic	p-Terphenyl-d14	n/a	=	90	%	EPA 625	-88	-88	6	145	X
2010/11-4	ME-CC	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.24	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	65	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	ME-CC	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	43.2	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	86	%	EPA 625	-88	-88	6	145	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	ME-SCR	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.63	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	73	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	ME-SCR	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	28.3	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	57	%	EPA 625	-88	-88	6	145	X
2010/11-4	ME-VR2	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.73	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	75	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	ME-VR2	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	40	µg/L	EPA 625	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	80	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-CAM	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.84	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	77	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	MO-CAM	srgt matrix spike	3/8/2011	Organic	p-Terphenyl-d14	n/a	=	44.8	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/8/2011	Organic	p-Terphenyl-d14	n/a	=	44.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/8/2011	Organic	p-Terphenyl-d14	n/a	=	90	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/8/2011	Organic	p-Terphenyl-d14	n/a	=	90	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-CAM	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	45	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	90	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-FIL	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.78	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	76	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	MO-FIL	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	45.6	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	91	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-HUE	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.85	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	77	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	MO-HUE	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	42.1	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	84	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-MEI	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.41	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	68	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	MO-MEI	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	35.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	72	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-MPK	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.39	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	51	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	MO-MPK	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	38	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	76	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-OJA	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.47	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	69	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	MO-OJA	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	38.7	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	77	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-OXN	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	2.86	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	57	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	MO-OXN	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	39.6	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	79	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-SIM	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.47	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	69	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	MO-SIM	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	47.9	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	96	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-SPA	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.73	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	75	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	MO-SPA	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	39.5	µg/L	EPA 625	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-SPA	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	79	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-THO	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.42	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	68	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	MO-THO	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	39.3	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	79	%	EPA 625	-88	-88	6	145	X
2010/11-4	MO-VEN	srgt environ	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	3.32	µg/L	EPA 8270Cm	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/2/2011	Organic	p-Terphenyl-d14	n/a	=	66	%	EPA 8270Cm	-88	-88	19	134	X
2010/11-4	MO-VEN	srgt environ	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	39.2	µg/L	EPA 625	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/9/2011	Organic	p-Terphenyl-d14	n/a	=	78	%	EPA 625	-88	-88	6	145	X
2010/11-4	Lab	LCS	3/1/2011	Organic	Pyrene	n/a	=	5.23	µg/L	EPA 8270Cm	0.21	0.5			X
2010/11-4	Lab	LCS, rec	3/1/2011	Organic	Pyrene	n/a	=	105	%	EPA 8270Cm	-88	-88	52	115	X
2010/11-4	Lab	method blank	3/1/2011	Organic	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5			X
2010/11-4	Lab	LCS dup	3/2/2011	Organic	Pyrene	n/a	=	4.32	µg/L	EPA 8270Cm	0.21	0.5			X
2010/11-4	Lab	LCS dup, rec	3/2/2011	Organic	Pyrene	n/a	=	86	%	EPA 8270Cm	-88	-88	52	115	X
2010/11-4	Lab	LCS, RPD	3/2/2011	Organic	Pyrene	n/a	=	19	%	EPA 8270Cm	-88	-88	0	30	X
2010/11-4	Lab	srgt LCS	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.111	µg/L	EPA 608	-88	-88			X
2010/11-4	Lab	srgt LCS dup	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0946	µg/L	EPA 608	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	95	%	EPA 608	-88	-88	26	131	X
2010/11-4	Lab	srgt LCS, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	111	%	EPA 608	-88	-88	26	131	X
2010/11-4	Lab	srgt method blank	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0973	µg/L	EPA 608	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	97	%	EPA 608	-88	-88	26	131	X
2010/11-4	Lab	srgt LCS	3/7/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.102	µg/L	EPA 608	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/7/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	102	%	EPA 608	-88	-88	26	131	X
2010/11-4	Lab	srgt method blank	3/7/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0897	µg/L	EPA 608	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/7/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	90	%	EPA 608	-88	-88	26	131	X
2010/11-4	ME-CC	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.064	µg/L	EPA 608	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	64	%	EPA 608	-88	-88	26	131	X
2010/11-4	ME-SCR	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.076	µg/L	EPA 608	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	76	%	EPA 608	-88	-88	26	131	X
2010/11-4	ME-VR2	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0812	µg/L	EPA 608	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	81	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-CAM	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0726	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	73	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-CAM	srgt matrix spike	3/5/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0591	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/5/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0616	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/5/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	62	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/5/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	59	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-FIL	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0622	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	62	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-HUE	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0662	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	66	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-MEI	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0621	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	62	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-MPK	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0513	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	51	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-OJA	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0826	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	83	%	EPA 608	-88	-88	26	131	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-OXN	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0748	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	75	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-SIM	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0782	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	78	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-SPA	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0656	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	66	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-THO	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0623	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	62	%	EPA 608	-88	-88	26	131	X
2010/11-4	MO-VEN	srgt environ	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0674	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/1/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	67	%	EPA 608	-88	-88	26	131	X
2010/11-4	Lab	srgt LCS	2/25/2011	Organic	Triphenylphosphate	n/a	=	0.59	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS dup	2/25/2011	Organic	Triphenylphosphate	n/a	=	1.14	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	Lab	srgt LCS dup, rec	2/25/2011	Organic	Triphenylphosphate	n/a	=	227	%	EPA 525.2	-88	-88	71	150	GN
2010/11-4	Lab	srgt LCS, rec	2/25/2011	Organic	Triphenylphosphate	n/a	=	118	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt method blank	2/25/2011	Organic	Triphenylphosphate	n/a	=	0.673	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	2/25/2011	Organic	Triphenylphosphate	n/a	=	135	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt LCS	3/1/2011	Organic	Triphenylphosphate	n/a	=	0.464	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS dup	3/1/2011	Organic	Triphenylphosphate	n/a	=	0.5	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/1/2011	Organic	Triphenylphosphate	n/a	=	100	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt LCS, rec	3/1/2011	Organic	Triphenylphosphate	n/a	=	93	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt method blank	3/1/2011	Organic	Triphenylphosphate	n/a	=	0.493	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/1/2011	Organic	Triphenylphosphate	n/a	=	99	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt LCS	3/2/2011	Organic	Triphenylphosphate	n/a	=	0.462	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/2/2011	Organic	Triphenylphosphate	n/a	=	92	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt method blank	3/2/2011	Organic	Triphenylphosphate	n/a	=	0.496	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/2/2011	Organic	Triphenylphosphate	n/a	=	99	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt LCS dup	3/3/2011	Organic	Triphenylphosphate	n/a	=	0.426	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/3/2011	Organic	Triphenylphosphate	n/a	=	85	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt LCS	3/4/2011	Organic	Triphenylphosphate	n/a	=	5.01	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/4/2011	Organic	Triphenylphosphate	n/a	=	100	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt method blank	3/4/2011	Organic	Triphenylphosphate	n/a	=	5.42	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/4/2011	Organic	Triphenylphosphate	n/a	=	108	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt LCS	3/7/2011	Organic	Triphenylphosphate	n/a	=	6.05	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/7/2011	Organic	Triphenylphosphate	n/a	=	121	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt method blank	3/7/2011	Organic	Triphenylphosphate	n/a	=	5.17	µg/L	EPA 525.2	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/7/2011	Organic	Triphenylphosphate	n/a	=	103	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	ME-CC	srgt environ	2/25/2011	Organic	Triphenylphosphate	n/a	=	0.537	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	2/25/2011	Organic	Triphenylphosphate	n/a	=	107	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	ME-CC	srgt environ	3/4/2011	Organic	Triphenylphosphate	n/a	=	5.64	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/4/2011	Organic	Triphenylphosphate	n/a	=	118	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	ME-SCR	srgt environ	3/1/2011	Organic	Triphenylphosphate	n/a	=	0.435	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/1/2011	Organic	Triphenylphosphate	n/a	=	87	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	ME-SCR	srgt environ	3/4/2011	Organic	Triphenylphosphate	n/a	=	6.25	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/4/2011	Organic	Triphenylphosphate	n/a	=	125	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	ME-VR2	srgt environ	3/2/2011	Organic	Triphenylphosphate	n/a	=	0.637	µg/L	EPA 525.2	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/2/2011	Organic	Triphenylphosphate	n/a	=	127	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	ME-VR2	srgt environ	3/7/2011	Organic	Triphenylphosphate	n/a	=	5.84	µg/L	EPA 525.2	-88	-88			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	ME-VR2	srgt environ, rec	3/7/2011	Organic	Triphenylphosphate	n/a	=	117	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-CAM	srgt environ	2/25/2011	Organic	Triphenylphosphate	n/a	=	0.675	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	2/25/2011	Organic	Triphenylphosphate	n/a	=	135	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-CAM	srgt environ	3/4/2011	Organic	Triphenylphosphate	n/a	=	5.23	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/4/2011	Organic	Triphenylphosphate	n/a	=	105	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-CAM	srgt matrix spike	3/4/2011	Organic	Triphenylphosphate	n/a	=	5.01	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/4/2011	Organic	Triphenylphosphate	n/a	=	5.08	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/4/2011	Organic	Triphenylphosphate	n/a	=	102	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/4/2011	Organic	Triphenylphosphate	n/a	=	100	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-CAM	srgt matrix spike	3/7/2011	Organic	Triphenylphosphate	n/a	=	6.05	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/7/2011	Organic	Triphenylphosphate	n/a	=	5.51	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/7/2011	Organic	Triphenylphosphate	n/a	=	110	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/7/2011	Organic	Triphenylphosphate	n/a	=	121	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-FIL	srgt environ	3/1/2011	Organic	Triphenylphosphate	n/a	=	0.43	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/1/2011	Organic	Triphenylphosphate	n/a	=	86	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-FIL	srgt environ	3/4/2011	Organic	Triphenylphosphate	n/a	=	4.79	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/4/2011	Organic	Triphenylphosphate	n/a	=	99	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-HUE	srgt environ	3/2/2011	Organic	Triphenylphosphate	n/a	=	0.817	µg/L	EPA 525.2	-88	-88			GN
2010/11-4	MO-HUE	srgt environ, rec	3/2/2011	Organic	Triphenylphosphate	n/a	=	163	%	EPA 525.2	-88	-88	71	150	GN
2010/11-4	MO-HUE	srgt environ	3/7/2011	Organic	Triphenylphosphate	n/a	=	5.13	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/7/2011	Organic	Triphenylphosphate	n/a	=	103	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-MEI	srgt environ	3/2/2011	Organic	Triphenylphosphate	n/a	=	0.538	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/2/2011	Organic	Triphenylphosphate	n/a	=	108	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-MEI	srgt environ	3/7/2011	Organic	Triphenylphosphate	n/a	=	5.61	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/7/2011	Organic	Triphenylphosphate	n/a	=	116	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-MPK	srgt environ	3/1/2011	Organic	Triphenylphosphate	n/a	=	0.508	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/1/2011	Organic	Triphenylphosphate	n/a	=	102	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-MPK	srgt environ	3/7/2011	Organic	Triphenylphosphate	n/a	=	6.32	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/7/2011	Organic	Triphenylphosphate	n/a	=	126	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-OJA	srgt environ	3/2/2011	Organic	Triphenylphosphate	n/a	=	0.522	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/2/2011	Organic	Triphenylphosphate	n/a	=	104	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-OJA	srgt environ	3/7/2011	Organic	Triphenylphosphate	n/a	=	5.42	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/7/2011	Organic	Triphenylphosphate	n/a	=	112	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-OXN	srgt environ	3/2/2011	Organic	Triphenylphosphate	n/a	=	0.589	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/2/2011	Organic	Triphenylphosphate	n/a	=	118	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-OXN	srgt environ	3/7/2011	Organic	Triphenylphosphate	n/a	=	5	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/7/2011	Organic	Triphenylphosphate	n/a	=	103	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-SIM	srgt environ	3/1/2011	Organic	Triphenylphosphate	n/a	=	0.443	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/1/2011	Organic	Triphenylphosphate	n/a	=	89	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-SIM	srgt environ	3/4/2011	Organic	Triphenylphosphate	n/a	=	4.85	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/4/2011	Organic	Triphenylphosphate	n/a	=	97	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-SPA	srgt environ	3/1/2011	Organic	Triphenylphosphate	n/a	=	0.53	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/1/2011	Organic	Triphenylphosphate	n/a	=	106	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-SPA	srgt environ	3/4/2011	Organic	Triphenylphosphate	n/a	=	4.75	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/4/2011	Organic	Triphenylphosphate	n/a	=	95	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-THO	srgt environ	3/2/2011	Organic	Triphenylphosphate	n/a	=	0.473	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/2/2011	Organic	Triphenylphosphate	n/a	=	95	%	EPA 525.2	-88	-88	71	150	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-THO	srgt environ	3/4/2011	Organic	Triphenylphosphate	n/a	=	5.28	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/4/2011	Organic	Triphenylphosphate	n/a	=	106	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-VEN	srgt environ	3/2/2011	Organic	Triphenylphosphate	n/a	=	0.681	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/2/2011	Organic	Triphenylphosphate	n/a	=	136	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	MO-VEN	srgt environ	3/7/2011	Organic	Triphenylphosphate	n/a	=	4.86	µg/L	EPA 525.2	-88	-88			X
2010/11-4	MO-VEN	srgt environ, rec	3/7/2011	Organic	Triphenylphosphate	n/a	=	100	%	EPA 525.2	-88	-88	71	150	X
2010/11-4	Lab	srgt LCS	3/1/2011	PCB	PCB 209	n/a	=	0.125	µg/L	EPA 608	-88	-88			X
2010/11-4	Lab	srgt LCS dup	3/1/2011	PCB	PCB 209	n/a	=	0.11	µg/L	EPA 608	-88	-88			X
2010/11-4	Lab	srgt LCS dup, rec	3/1/2011	PCB	PCB 209	n/a	=	110	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	Lab	srgt LCS, rec	3/1/2011	PCB	PCB 209	n/a	=	125	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	Lab	srgt method blank	3/1/2011	PCB	PCB 209	n/a	=	0.107	µg/L	EPA 608	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/1/2011	PCB	PCB 209	n/a	=	107	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	Lab	srgt LCS	3/7/2011	PCB	PCB 209	n/a	=	0.125	µg/L	EPA 608	-88	-88			X
2010/11-4	Lab	srgt LCS, rec	3/7/2011	PCB	PCB 209	n/a	=	125	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	Lab	srgt method blank	3/7/2011	PCB	PCB 209	n/a	=	0.106	µg/L	EPA 608	-88	-88			X
2010/11-4	Lab	srgt method blank, rec	3/7/2011	PCB	PCB 209	n/a	=	106	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	ME-CC	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0671	µg/L	EPA 608	-88	-88			X
2010/11-4	ME-CC	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	67	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	ME-SCR	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0712	µg/L	EPA 608	-88	-88			X
2010/11-4	ME-SCR	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	71	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	ME-VR2	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0871	µg/L	EPA 608	-88	-88			X
2010/11-4	ME-VR2	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	87	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-CAM	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0692	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-CAM	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	69	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-CAM	srgt matrix spike	3/5/2011	PCB	PCB 209	n/a	=	0.107	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup	3/5/2011	PCB	PCB 209	n/a	=	0.0845	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-CAM	srgt matrix spike dup, rec	3/5/2011	PCB	PCB 209	n/a	=	85	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-CAM	srgt matrix spike, rec	3/5/2011	PCB	PCB 209	n/a	=	107	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-FIL	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0671	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-FIL	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	67	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-HUE	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0803	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-HUE	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	80	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-MEI	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0567	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-MEI	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	57	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-MPK	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0557	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-MPK	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	56	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-OJA	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0769	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-OJA	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	77	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-OXN	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0619	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-OXN	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	62	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-SIM	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0874	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-SIM	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	87	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-SPA	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0487	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-SPA	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	49	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-THO	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0738	µg/L	EPA 608	-88	-88			X
2010/11-4	MO-THO	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	74	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	MO-VEN	srgt environ	3/1/2011	PCB	PCB 209	n/a	=	0.0654	µg/L	EPA 608	-88	-88			X

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													Min	Max	
2010/11-4	MO-VEN	srgt environ, rec	3/1/2011	PCB	PCB 209	n/a	=	65	%	EPA 608	-88	-88	0.1	154	X
2010/11-4	Lab	method blank	3/1/2011	PCB	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5			X
2010/11-4	Lab	method blank	3/7/2011	PCB	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5			X
2010/11-4	Lab	method blank	3/1/2011	PCB	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5			X
2010/11-4	Lab	method blank	3/7/2011	PCB	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5			X
2010/11-4	Lab	method blank	3/1/2011	PCB	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5			X
2010/11-4	Lab	method blank	3/7/2011	PCB	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5			X
2010/11-4	Lab	method blank	3/1/2011	PCB	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5			X
2010/11-4	Lab	method blank	3/7/2011	PCB	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5			X
2010/11-4	Lab	method blank	3/1/2011	PCB	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5			X
2010/11-4	Lab	method blank	3/7/2011	PCB	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5			X
2010/11-4	Lab	method blank	3/1/2011	PCB	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5			X
2010/11-4	Lab	method blank	3/7/2011	PCB	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5			X
2010/11-4	Lab	method blank	3/1/2011	PCB	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5			X
2010/11-4	Lab	method blank	3/7/2011	PCB	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5			X
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	2,4,5-T	n/a	=	4.02	µg/L	EPA 515.3	0.05	0.2			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	2,4,5-T	n/a	=	4.11	µg/L	EPA 515.3	0.05	0.2			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	2,4,5-T	n/a	=	103	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	2,4,5-T	n/a	=	100	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	2,4,5-T	n/a	=	2	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	2,4,5-T	n/a	=	4.56	µg/L	EPA 515.3	0.07	0.2			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	2,4,5-T	n/a	=	4.13	µg/L	EPA 515.3	0.07	0.2			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	2,4,5-T	n/a	=	103	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	2,4,5-T	n/a	=	114	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	2,4,5-T	n/a	=	10	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	2,4,5-T	n/a	=	4.02	µg/L	EPA 515.3	0.05	0.2			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	2,4,5-T	n/a	=	100	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	2,4,5-T	n/a	=	3.93	µg/L	EPA 515.3	0.07	0.2			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	2,4,5-T	n/a	=	98	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2			
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	2,4,5-TP	n/a	=	4.13	µg/L	EPA 515.3	0.02	0.2			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	2,4,5-TP	n/a	=	3.99	µg/L	EPA 515.3	0.02	0.2			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	2,4,5-TP	n/a	=	100	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	2,4,5-TP	n/a	=	103	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	2,4,5-TP	n/a	=	4	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	2,4,5-TP	n/a	=	4.39	µg/L	EPA 515.3	0.09	0.2			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	2,4,5-TP	n/a	=	4.06	µg/L	EPA 515.3	0.09	0.2			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	2,4,5-TP	n/a	=	102	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	2,4,5-TP	n/a	=	110	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	2,4,5-TP	n/a	=	8	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	2,4,5-TP	n/a	=	4.03	µg/L	EPA 515.3	0.02	0.2			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	2,4,5-TP	n/a	=	101	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	2,4,5-TP	n/a	=	3.92	µg/L	EPA 515.3	0.09	0.2			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	2,4,5-TP	n/a	=	98	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2			

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Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	2,4-D	n/a	=	7.66	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	2,4-D	n/a	=	7.69	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	2,4-D	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	2,4-D	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	2,4-D	n/a	=	0.5	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	2,4-D	n/a	=	8.99	µg/L	EPA 515.3	0.07	0.4			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	2,4-D	n/a	=	8.09	µg/L	EPA 515.3	0.07	0.4			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	2,4-D	n/a	=	101	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	2,4-D	n/a	=	112	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	2,4-D	n/a	=	11	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	2,4-D	n/a	=	7.17	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	2,4-D	n/a	=	90	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	2,4-D	n/a	=	8.19	µg/L	EPA 515.3	0.07	0.4			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	2,4-D	n/a	=	102	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4			
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	2,4-DB	n/a	=	18.5	µg/L	EPA 515.3	0.42	2			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	2,4-DB	n/a	=	19.5	µg/L	EPA 515.3	0.42	2			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	2,4-DB	n/a	=	122	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	2,4-DB	n/a	=	116	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	2,4-DB	n/a	=	5	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	2,4-DB	n/a	=	17.1	µg/L	EPA 515.3	0.07	2			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	2,4-DB	n/a	=	15.5	µg/L	EPA 515.3	0.07	2			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	2,4-DB	n/a	=	97	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	2,4-DB	n/a	=	107	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	2,4-DB	n/a	=	9	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	2,4-DB	n/a	=	18.3	µg/L	EPA 515.3	0.42	2			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	2,4-DB	n/a	=	115	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	2,4-DB	n/a	=	15.8	µg/L	EPA 515.3	0.07	2			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	2,4-DB	n/a	=	99	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2			
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	8.74	µg/L	EPA 515.3	0.08	1			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	8.84	µg/L	EPA 515.3	0.08	1			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	111	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	109	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	9.22	µg/L	EPA 515.3	0.09	1			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	8.34	µg/L	EPA 515.3	0.09	1			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	104	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	115	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	10	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	8.15	µg/L	EPA 515.3	0.08	1			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	102	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	9.47	µg/L	EPA 515.3	0.09	1			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	118	%	EPA 515.3	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1			
2010/11-4	Lab	LCS	3/1/2011	Pesticide	4,4'-DDD	n/a	=	0.111	µg/L	EPA 608	0.003	0.05			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	4,4'-DDD	n/a	=	0.101	µg/L	EPA 608	0.003	0.05			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	4,4'-DDD	n/a	=	101	%	EPA 608	-88	-88	30	141	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	4,4'-DDD	n/a	=	111	%	EPA 608	-88	-88	30	141	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	4,4'-DDD	n/a	=	9	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	4,4'-DDD	n/a	=	0.0918	µg/L	EPA 608	0.003	0.05			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	4,4'-DDD	n/a	=	92	%	EPA 608	-88	-88	30	141	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	4,4'-DDD	n/a	=	0.0862	µg/L	EPA 608	0.003	0.05			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	4,4'-DDD	n/a	=	0.09	µg/L	EPA 608	0.003	0.05			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	4,4'-DDD	n/a	=	90	%	EPA 608	-88	-88	31	141	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	4,4'-DDD	n/a	=	86	%	EPA 608	-88	-88	31	141	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	4,4'-DDD	n/a	=	4	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	4,4'-DDE	n/a	=	0.109	µg/L	EPA 608	0.0025	0.05			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	4,4'-DDE	n/a	=	0.101	µg/L	EPA 608	0.0025	0.05			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	4,4'-DDE	n/a	=	101	%	EPA 608	-88	-88	30	145	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	4,4'-DDE	n/a	=	109	%	EPA 608	-88	-88	30	145	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	4,4'-DDE	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	4,4'-DDE	n/a	=	0.0945	µg/L	EPA 608	0.0025	0.05			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	4,4'-DDE	n/a	=	94	%	EPA 608	-88	-88	30	145	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	4,4'-DDE	n/a	=	0.101	µg/L	EPA 608	0.0025	0.05			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	4,4'-DDE	n/a	=	0.0929	µg/L	EPA 608	0.0025	0.05			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	4,4'-DDE	n/a	=	76	%	EPA 608	-88	-88	30	145	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	4,4'-DDE	n/a	=	84	%	EPA 608	-88	-88	30	145	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	4,4'-DDE	n/a	=	9	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	4,4'-DDT	n/a	=	0.111	µg/L	EPA 608	0.0031	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	4,4'-DDT	n/a	=	0.101	µg/L	EPA 608	0.0031	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	4,4'-DDT	n/a	=	101	%	EPA 608	-88	-88	25	160	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	4,4'-DDT	n/a	=	111	%	EPA 608	-88	-88	25	160	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	4,4'-DDT	n/a	=	9	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	4,4'-DDT	n/a	=	0.108	µg/L	EPA 608	0.0031	0.01			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	4,4'-DDT	n/a	=	108	%	EPA 608	-88	-88	25	160	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	4,4'-DDT	n/a	=	0.0771	µg/L	EPA 608	0.0031	0.01			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	4,4'-DDT	n/a	=	0.0752	µg/L	EPA 608	0.0031	0.01			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	4,4'-DDT	n/a	=	68	%	EPA 608	-88	-88	25	160	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	4,4'-DDT	n/a	=	70	%	EPA 608	-88	-88	25	160	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	4,4'-DDT	n/a	=	2	%	EPA 608	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	Acifluorfen	n/a	=	4.05	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	Acifluorfen	n/a	=	4.08	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	Acifluorfen	n/a	=	102	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	Acifluorfen	n/a	=	101	%	EPA 515.3	-88	-88	70	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	Acifluorfen	n/a	=	0.8	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	Acifluorfen	n/a	=	4.02	µg/L	EPA 515.3	0.06	0.4			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	Acifluorfen	n/a	=	3.75	µg/L	EPA 515.3	0.06	0.4			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	Acifluorfen	n/a	=	94	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	Acifluorfen	n/a	=	100	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	Acifluorfen	n/a	=	7	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	Acifluorfen	n/a	=	3.74	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	Acifluorfen	n/a	=	94	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	Acifluorfen	n/a	=	3.63	µg/L	EPA 515.3	0.06	0.4			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	Acifluorfen	n/a	=	91	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4			
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Alachlor	n/a	=	4.86	µg/L	EPA 525.2	0.07	0.1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Alachlor	n/a	=	97	%	EPA 525.2	-88	-88	58	164	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Alachlor	n/a	=	4.82	µg/L	EPA 525.2	0.07	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Alachlor	n/a	=	96	%	EPA 525.2	-88	-88	58	164	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Alachlor	n/a	=	4.86	µg/L	EPA 525.2	0.07	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Alachlor	n/a	=	4.69	µg/L	EPA 525.2	0.07	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Alachlor	n/a	=	94	%	EPA 525.2	-88	-88	58	177	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Alachlor	n/a	=	97	%	EPA 525.2	-88	-88	58	177	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Alachlor	n/a	=	4	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Alachlor	n/a	=	4.82	µg/L	EPA 525.2	0.07	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Alachlor	n/a	=	5.29	µg/L	EPA 525.2	0.07	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Alachlor	n/a	=	106	%	EPA 525.2	-88	-88	58	177	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Alachlor	n/a	=	96	%	EPA 525.2	-88	-88	58	177	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Alachlor	n/a	=	9	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Aldrin	n/a	=	0.1	µg/L	EPA 608	0.0015	0.005			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Aldrin	n/a	=	0.0922	µg/L	EPA 608	0.0015	0.005			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Aldrin	n/a	=	92	%	EPA 608	-88	-88	42	122	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Aldrin	n/a	=	100	%	EPA 608	-88	-88	42	122	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Aldrin	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Aldrin	n/a	=	0.0909	µg/L	EPA 608	0.0015	0.005			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Aldrin	n/a	=	91	%	EPA 608	-88	-88	42	122	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	Aldrin	n/a	=	0.0664	µg/L	EPA 608	0.0015	0.005			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	Aldrin	n/a	=	0.0731	µg/L	EPA 608	0.0015	0.005			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	Aldrin	n/a	=	73	%	EPA 608	-88	-88	42	122	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	Aldrin	n/a	=	66	%	EPA 608	-88	-88	42	122	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	Aldrin	n/a	=	10	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	alpha-BHC	n/a	=	0.103	µg/L	EPA 608	0.0018	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	alpha-BHC	n/a	=	0.0941	µg/L	EPA 608	0.0018	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	alpha-BHC	n/a	=	94	%	EPA 608	-88	-88	37	134	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	alpha-BHC	n/a	=	103	%	EPA 608	-88	-88	37	134	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	alpha-BHC	n/a	=	9	%	EPA 608	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	method blank	3/1/2011	Pesticide	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	alpha-BHC	n/a	=	0.0896	µg/L	EPA 608	0.0018	0.01			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	alpha-BHC	n/a	=	90	%	EPA 608	-88	-88	37	134	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	alpha-BHC	n/a	=	0.0725	µg/L	EPA 608	0.0018	0.01			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	alpha-BHC	n/a	=	0.0734	µg/L	EPA 608	0.0018	0.01			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	alpha-BHC	n/a	=	73	%	EPA 608	-88	-88	37	134	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	alpha-BHC	n/a	=	72	%	EPA 608	-88	-88	37	134	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	alpha-BHC	n/a	=	1	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01			X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01			X
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Atrazine	n/a	=	5.32	µg/L	EPA 525.2	0.047	0.1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Atrazine	n/a	=	106	%	EPA 525.2	-88	-88	68	133	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Atrazine	n/a	=	4.99	µg/L	EPA 525.2	0.047	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Atrazine	n/a	=	100	%	EPA 525.2	-88	-88	68	133	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Atrazine	n/a	=	5.32	µg/L	EPA 525.2	0.047	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Atrazine	n/a	=	4.96	µg/L	EPA 525.2	0.047	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Atrazine	n/a	=	99	%	EPA 525.2	-88	-88	53	142	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Atrazine	n/a	=	106	%	EPA 525.2	-88	-88	53	142	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Atrazine	n/a	=	7	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Atrazine	n/a	=	4.99	µg/L	EPA 525.2	0.047	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Atrazine	n/a	=	4.84	µg/L	EPA 525.2	0.047	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Atrazine	n/a	=	97	%	EPA 525.2	-88	-88	53	142	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Atrazine	n/a	=	100	%	EPA 525.2	-88	-88	53	142	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Atrazine	n/a	=	3	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Azinphos methyl	n/a	=	0.0928	µg/L	EPA 525.2	0.0055	0.01			EUM
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Azinphos methyl	n/a	=	0.163	µg/L	EPA 525.2	0.0055	0.01			EUM,IL
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Azinphos methyl	n/a	=	325	%	EPA 525.2	-88	-88	50	150	EUM,IL
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Azinphos methyl	n/a	=	186	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Azinphos methyl	n/a	=	55	%	EPA 525.2	-88	-88	0	25	EUM,IL
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Azinphos methyl	n/a	=	0.0643	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Azinphos methyl	n/a	=	0.0784	µg/L	EPA 525.2	0.0055	0.01			EUM
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Azinphos methyl	n/a	=	157	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Azinphos methyl	n/a	=	129	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Azinphos methyl	n/a	=	20	%	EPA 525.2	-88	-88	0	25	EUM
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Azinphos methyl	n/a	=	0.0585	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Azinphos methyl	n/a	=	117	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Azinphos methyl	n/a	=	0.0658	µg/L	EPA 525.2	0.0055	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Azinphos methyl	n/a	=	132	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Azinphos methyl	n/a	=	12	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	Bentazon	n/a	=	15.1	µg/L	EPA 515.3	0.23	2			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	Bentazon	n/a	=	15.3	µg/L	EPA 515.3	0.23	2			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	Bentazon	n/a	=	95	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	Bentazon	n/a	=	94	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	Bentazon	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	Bentazon	n/a	=	17.5	µg/L	EPA 515.3	0.11	2			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	Bentazon	n/a	=	16.2	µg/L	EPA 515.3	0.11	2			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	Bentazon	n/a	=	101	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	Bentazon	n/a	=	109	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	Bentazon	n/a	=	7	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	Bentazon	n/a	=	14.4	µg/L	EPA 515.3	0.23	2			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	Bentazon	n/a	=	90	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	Bentazon	n/a	=	16.4	µg/L	EPA 515.3	0.11	2			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	Bentazon	n/a	=	103	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2			
2010/11-4	Lab	LCS	3/1/2011	Pesticide	beta-BHC	n/a	=	0.101	µg/L	EPA 608	0.0031	0.005			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	beta-BHC	n/a	=	0.0934	µg/L	EPA 608	0.0031	0.005			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	beta-BHC	n/a	=	93	%	EPA 608	-88	-88	14	147	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	beta-BHC	n/a	=	101	%	EPA 608	-88	-88	14	147	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	beta-BHC	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	beta-BHC	n/a	=	0.0901	µg/L	EPA 608	0.0031	0.005			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	beta-BHC	n/a	=	90	%	EPA 608	-88	-88	14	147	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	beta-BHC	n/a	=	0.0681	µg/L	EPA 608	0.0031	0.005			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	beta-BHC	n/a	=	0.063	µg/L	EPA 608	0.0031	0.005			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	beta-BHC	n/a	=	63	%	EPA 608	-88	-88	17	147	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	beta-BHC	n/a	=	68	%	EPA 608	-88	-88	17	147	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	beta-BHC	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Bolstar	n/a	=	0.0488	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Bolstar	n/a	=	0.0964	µg/L	EPA 525.2	0.0046	0.01			EUM,IL
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Bolstar	n/a	=	193	%	EPA 525.2	-88	-88	50	150	EUM,IL
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Bolstar	n/a	=	98	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Bolstar	n/a	=	65	%	EPA 525.2	-88	-88	0	25	EUM,IL
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Bolstar	n/a	=	0.0403	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Bolstar	n/a	=	0.0427	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Bolstar	n/a	=	85	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Bolstar	n/a	=	81	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Bolstar	n/a	=	6	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Bolstar	n/a	=	0.0303	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Bolstar	n/a	=	61	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Bolstar	n/a	=	0.0268	µg/L	EPA 525.2	0.0046	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Bolstar	n/a	=	54	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Bolstar	n/a	=	12	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Bromacil	n/a	=	6.37	µg/L	EPA 525.2	0.9	1			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Bromacil	n/a	=	127	%	EPA 525.2	-88	-88	43	177	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Bromacil	n/a	=	5.78	µg/L	EPA 525.2	0.9	1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Bromacil	n/a	=	116	%	EPA 525.2	-88	-88	43	177	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Bromacil	n/a	=	6.37	µg/L	EPA 525.2	0.9	1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Bromacil	n/a	=	5.28	µg/L	EPA 525.2	0.9	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Bromacil	n/a	=	106	%	EPA 525.2	-88	-88	71	182	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Bromacil	n/a	=	127	%	EPA 525.2	-88	-88	71	182	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Bromacil	n/a	=	19	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Bromacil	n/a	=	5.78	µg/L	EPA 525.2	0.9	1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Bromacil	n/a	=	4.94	µg/L	EPA 525.2	0.9	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Bromacil	n/a	=	99	%	EPA 525.2	-88	-88	71	182	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Bromacil	n/a	=	116	%	EPA 525.2	-88	-88	71	182	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Bromacil	n/a	=	16	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Butachlor	n/a	=	4.9	µg/L	EPA 525.2	0.1	0.2			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Butachlor	n/a	=	98	%	EPA 525.2	-88	-88	55	178	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Butachlor	n/a	=	4.79	µg/L	EPA 525.2	0.1	0.2			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Butachlor	n/a	=	96	%	EPA 525.2	-88	-88	55	178	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Butachlor	n/a	=	4.9	µg/L	EPA 525.2	0.1	0.2			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Butachlor	n/a	=	5.12	µg/L	EPA 525.2	0.1	0.2			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Butachlor	n/a	=	102	%	EPA 525.2	-88	-88	67	181	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Butachlor	n/a	=	98	%	EPA 525.2	-88	-88	67	181	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Butachlor	n/a	=	4	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Butachlor	n/a	=	4.79	µg/L	EPA 525.2	0.1	0.2			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Butachlor	n/a	=	4.95	µg/L	EPA 525.2	0.1	0.2			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Butachlor	n/a	=	99	%	EPA 525.2	-88	-88	67	181	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Butachlor	n/a	=	96	%	EPA 525.2	-88	-88	67	181	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Butachlor	n/a	=	3	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Captan	n/a	=	6.51	µg/L	EPA 525.2	0.86	1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Captan	n/a	=	130	%	EPA 525.2	-88	-88	20	215	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Captan	n/a	=	6.99	µg/L	EPA 525.2	0.86	1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Captan	n/a	=	140	%	EPA 525.2	-88	-88	20	215	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Captan	n/a	=	6.51	µg/L	EPA 525.2	0.86	1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Captan	n/a	=	7.2	µg/L	EPA 525.2	0.86	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Captan	n/a	=	144	%	EPA 525.2	-88	-88	45	182	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Captan	n/a	=	130	%	EPA 525.2	-88	-88	45	182	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Captan	n/a	=	10	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Captan	n/a	=	6.99	µg/L	EPA 525.2	0.86	1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Captan	n/a	=	6.03	µg/L	EPA 525.2	0.86	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Captan	n/a	=	121	%	EPA 525.2	-88	-88	45	182	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Captan	n/a	=	140	%	EPA 525.2	-88	-88	45	182	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Captan	n/a	=	15	%	EPA 525.2	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1			X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1			X
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Chloropropham	n/a	=	5.97	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Chloropropham	n/a	=	119	%	EPA 525.2	-88	-88	74	133	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Chloropropham	n/a	=	5.89	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Chloropropham	n/a	=	118	%	EPA 525.2	-88	-88	74	133	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Chloropropham	n/a	=	5.97	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Chloropropham	n/a	=	6.31	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Chloropropham	n/a	=	126	%	EPA 525.2	-88	-88	76	137	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Chloropropham	n/a	=	119	%	EPA 525.2	-88	-88	76	137	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Chloropropham	n/a	=	6	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Chloropropham	n/a	=	5.89	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Chloropropham	n/a	=	6.11	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Chloropropham	n/a	=	122	%	EPA 525.2	-88	-88	76	137	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Chloropropham	n/a	=	118	%	EPA 525.2	-88	-88	76	137	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Chloropropham	n/a	=	4	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Chlorpyrifos	n/a	=	0.05	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Chlorpyrifos	n/a	=	0.0486	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Chlorpyrifos	n/a	=	97	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Chlorpyrifos	n/a	=	100	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Chlorpyrifos	n/a	=	3	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Chlorpyrifos	n/a	=	0.0513	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Chlorpyrifos	n/a	=	0.0557	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Chlorpyrifos	n/a	=	111	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Chlorpyrifos	n/a	=	103	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Chlorpyrifos	n/a	=	8	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Chlorpyrifos	n/a	=	0.0492	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Chlorpyrifos	n/a	=	98	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Chlorpyrifos	n/a	=	0.0728	µg/L	EPA 525.2	0.0069	0.01			IL
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Chlorpyrifos	n/a	=	146	%	EPA 525.2	-88	-88	50	150	IL
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Chlorpyrifos	n/a	=	39	%	EPA 525.2	-88	-88	0	25	IL
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Coumaphos	n/a	=	0.0543	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Coumaphos	n/a	=	0.117	µg/L	EPA 525.2	0.0051	0.01			EUM,IL
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Coumaphos	n/a	=	233	%	EPA 525.2	-88	-88	50	150	EUM,IL
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Coumaphos	n/a	=	109	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Coumaphos	n/a	=	73	%	EPA 525.2	-88	-88	0	25	EUM,IL
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Coumaphos	n/a	=	0.0457	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Coumaphos	n/a	=	0.0539	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Coumaphos	n/a	=	108	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Coumaphos	n/a	=	91	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Coumaphos	n/a	=	17	%	EPA 525.2	-88	-88	0	25	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Coumaphos	n/a	=	0.0418	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Coumaphos	n/a	=	84	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Coumaphos	n/a	=	0.0373	µg/L	EPA 525.2	0.0051	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Coumaphos	n/a	=	75	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Coumaphos	n/a	=	11	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Cyanazine	n/a	=	2.34	µg/L	EPA 525.2	0.02	0.1			EUM
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Cyanazine	n/a	=	47	%	EPA 525.2	-88	-88	69	131	EUM
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Cyanazine	n/a	=	2.27	µg/L	EPA 525.2	0.02	0.1			EUM
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Cyanazine	n/a	=	45	%	EPA 525.2	-88	-88	69	131	EUM
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Cyanazine	n/a	=	2.34	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Cyanazine	n/a	=	2.13	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Cyanazine	n/a	=	43	%	EPA 525.2	-88	-88	26	145	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Cyanazine	n/a	=	47	%	EPA 525.2	-88	-88	26	145	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Cyanazine	n/a	=	9	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Cyanazine	n/a	=	2.27	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Cyanazine	n/a	=	1.93	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Cyanazine	n/a	=	39	%	EPA 525.2	-88	-88	26	145	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Cyanazine	n/a	=	45	%	EPA 525.2	-88	-88	26	145	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Cyanazine	n/a	=	16	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	Dalapon	n/a	=	8.5	µg/L	EPA 515.3	0.04	0.4			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	Dalapon	n/a	=	8.39	µg/L	EPA 515.3	0.04	0.4			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	Dalapon	n/a	=	105	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	Dalapon	n/a	=	106	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	Dalapon	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	Dalapon	n/a	=	8.6	µg/L	EPA 515.3	0.1	0.4			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	Dalapon	n/a	=	7.78	µg/L	EPA 515.3	0.1	0.4			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	Dalapon	n/a	=	97	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	Dalapon	n/a	=	108	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	Dalapon	n/a	=	10	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	Dalapon	n/a	=	7.87	µg/L	EPA 515.3	0.04	0.4			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	Dalapon	n/a	=	98	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	Dalapon	n/a	=	8.41	µg/L	EPA 515.3	0.1	0.4			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	Dalapon	n/a	=	105	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4			
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	DCPA (Dacthal)	n/a	=	3.88	µg/L	EPA 515.3	0.02	0.1			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	DCPA (Dacthal)	n/a	=	3.91	µg/L	EPA 515.3	0.02	0.1			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	DCPA (Dacthal)	n/a	=	98	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	DCPA (Dacthal)	n/a	=	97	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	DCPA (Dacthal)	n/a	=	0.8	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	DCPA (Dacthal)	n/a	=	4.28	µg/L	EPA 515.3	0.07	0.1			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	DCPA (Dacthal)	n/a	=	4.04	µg/L	EPA 515.3	0.07	0.1			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	DCPA (Dacthal)	n/a	=	101	%	EPA 515.3	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	DCPA (Dacthal)	n/a	=	107	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	DCPA (Dacthal)	n/a	=	6	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	DCPA (Dacthal)	n/a	=	3.68	µg/L	EPA 515.3	0.02	0.1			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	DCPA (Dacthal)	n/a	=	92	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	DCPA (Dacthal)	n/a	=	3.92	µg/L	EPA 515.3	0.07	0.1			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	DCPA (Dacthal)	n/a	=	98	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1			
2010/11-4	Lab	LCS	3/1/2011	Pesticide	delta-BHC	n/a	=	0.105	µg/L	EPA 608	0.0025	0.005			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	delta-BHC	n/a	=	0.0972	µg/L	EPA 608	0.0025	0.005			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	delta-BHC	n/a	=	97	%	EPA 608	-88	-88	19	140	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	delta-BHC	n/a	=	105	%	EPA 608	-88	-88	19	140	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	delta-BHC	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	delta-BHC	n/a	=	0.0913	µg/L	EPA 608	0.0025	0.005			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	delta-BHC	n/a	=	91	%	EPA 608	-88	-88	19	140	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	delta-BHC	n/a	=	0.0748	µg/L	EPA 608	0.0025	0.005			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	delta-BHC	n/a	=	0.0716	µg/L	EPA 608	0.0025	0.005			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	delta-BHC	n/a	=	72	%	EPA 608	-88	-88	19	140	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	delta-BHC	n/a	=	75	%	EPA 608	-88	-88	19	140	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	delta-BHC	n/a	=	4	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Demeton-O	n/a	=	0.0404	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Demeton-O	n/a	=	0.0415	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Demeton-O	n/a	=	83	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Demeton-O	n/a	=	81	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Demeton-O	n/a	=	2	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Demeton-O	n/a	=	0.0464	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Demeton-O	n/a	=	0.0509	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Demeton-O	n/a	=	102	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Demeton-O	n/a	=	93	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Demeton-O	n/a	=	9	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Demeton-O	n/a	=	0.0402	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Demeton-O	n/a	=	80	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Demeton-O	n/a	=	0.0462	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Demeton-O	n/a	=	92	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Demeton-O	n/a	=	14	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Demeton-S	n/a	=	0.0404	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Demeton-S	n/a	=	0.0415	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Demeton-S	n/a	=	83	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Demeton-S	n/a	=	81	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Demeton-S	n/a	=	2	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Demeton-S	n/a	=	0.0464	µg/L	EPA 525.2	0.01	0.01			X

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Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Demeton-S	n/a	=	0.0509	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Demeton-S	n/a	=	102	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Demeton-S	n/a	=	93	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Demeton-S	n/a	=	9	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Demeton-S	n/a	=	0.0402	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Demeton-S	n/a	=	80	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Demeton-S	n/a	=	0.0462	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Demeton-S	n/a	=	92	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Demeton-S	n/a	=	14	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Diazinon	n/a	=	0.0526	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Diazinon	n/a	=	0.0492	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Diazinon	n/a	=	98	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Diazinon	n/a	=	105	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Diazinon	n/a	=	7	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Diazinon	n/a	=	0.0502	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Diazinon	n/a	=	0.0546	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Diazinon	n/a	=	109	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Diazinon	n/a	=	100	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Diazinon	n/a	=	8	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Diazinon	n/a	=	0.0809	µg/L	EPA 525.2	0.0052	0.01			EUM
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Diazinon	n/a	=	162	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Diazinon	n/a	=	0.066	µg/L	EPA 525.2	0.0052	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Diazinon	n/a	=	132	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Diazinon	n/a	=	20	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	Dicamba	n/a	=	7.71	µg/L	EPA 515.3	0.08	0.6			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	Dicamba	n/a	=	7.82	µg/L	EPA 515.3	0.08	0.6			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	Dicamba	n/a	=	98	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	Dicamba	n/a	=	96	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	Dicamba	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	Dicamba	n/a	=	8.88	µg/L	EPA 515.3	0.12	0.6			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	Dicamba	n/a	=	8.41	µg/L	EPA 515.3	0.12	0.6			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	Dicamba	n/a	=	105	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	Dicamba	n/a	=	111	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	Dicamba	n/a	=	5	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	Dicamba	n/a	=	7.31	µg/L	EPA 515.3	0.08	0.6			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	Dicamba	n/a	=	91	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	Dicamba	n/a	=	8.24	µg/L	EPA 515.3	0.12	0.6			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	Dicamba	n/a	=	103	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6			
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	Dichlorprop	n/a	=	7.07	µg/L	EPA 515.3	0.06	0.3			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	Dichlorprop	n/a	=	7.92	µg/L	EPA 515.3	0.06	0.3			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	Dichlorprop	n/a	=	99	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	Dichlorprop	n/a	=	88	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	Dichlorprop	n/a	=	11	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	Dichlorprop	n/a	=	8.63	µg/L	EPA 515.3	0.08	0.3			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	Dichlorprop	n/a	=	8.11	µg/L	EPA 515.3	0.08	0.3			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	Dichlorprop	n/a	=	101	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	Dichlorprop	n/a	=	108	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	Dichlorprop	n/a	=	6	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	Dichlorprop	n/a	=	5.71	µg/L	EPA 515.3	0.06	0.3			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	Dichlorprop	n/a	=	71	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	Dichlorprop	n/a	=	7.68	µg/L	EPA 515.3	0.08	0.3			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	Dichlorprop	n/a	=	96	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3			
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Dichlorvos	n/a	=	0.0442	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Dichlorvos	n/a	=	0.0458	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Dichlorvos	n/a	=	92	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Dichlorvos	n/a	=	88	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Dichlorvos	n/a	=	4	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Dichlorvos	n/a	=	0.0439	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Dichlorvos	n/a	=	0.0504	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Dichlorvos	n/a	=	101	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Dichlorvos	n/a	=	88	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Dichlorvos	n/a	=	14	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Dichlorvos	n/a	=	0.0443	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Dichlorvos	n/a	=	89	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Dichlorvos	n/a	=	0.0411	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Dichlorvos	n/a	=	82	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Dichlorvos	n/a	=	7	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Dieldrin	n/a	=	0.106	µg/L	EPA 608	0.0021	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Dieldrin	n/a	=	0.0978	µg/L	EPA 608	0.0021	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Dieldrin	n/a	=	98	%	EPA 608	-88	-88	36	146	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Dieldrin	n/a	=	106	%	EPA 608	-88	-88	36	146	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Dieldrin	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Dieldrin	n/a	=	0.0945	µg/L	EPA 608	0.0021	0.01			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Dieldrin	n/a	=	95	%	EPA 608	-88	-88	36	146	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	Dieldrin	n/a	=	0.079	µg/L	EPA 608	0.0021	0.01			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	Dieldrin	n/a	=	0.081	µg/L	EPA 608	0.0021	0.01			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	Dieldrin	n/a	=	81	%	EPA 608	-88	-88	36	146	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	Dieldrin	n/a	=	79	%	EPA 608	-88	-88	36	146	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	Dieldrin	n/a	=	2	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Dimethoate	n/a	=	0.0731	µg/L	EPA 525.2	0.0062	0.01			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Dimethoate	n/a	=	0.0747	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Dimethoate	n/a	=	149	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Dimethoate	n/a	=	146	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Dimethoate	n/a	=	2	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Dimethoate	n/a	=	0.0436	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Dimethoate	n/a	=	0.0487	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Dimethoate	n/a	=	97	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Dimethoate	n/a	=	87	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Dimethoate	n/a	=	11	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Dimethoate	n/a	=	0.0434	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Dimethoate	n/a	=	87	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Dimethoate	n/a	=	0.0525	µg/L	EPA 525.2	0.0062	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Dimethoate	n/a	=	105	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Dimethoate	n/a	=	19	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	Dinoseb	n/a	=	4.04	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	Dinoseb	n/a	=	4.18	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	Dinoseb	n/a	=	104	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	Dinoseb	n/a	=	101	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	Dinoseb	n/a	=	3	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	Dinoseb	n/a	=	4.31	µg/L	EPA 515.3	0.14	0.4			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	Dinoseb	n/a	=	4.04	µg/L	EPA 515.3	0.14	0.4			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	Dinoseb	n/a	=	101	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	Dinoseb	n/a	=	108	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	Dinoseb	n/a	=	6	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	Dinoseb	n/a	=	3.87	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	Dinoseb	n/a	=	97	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	Dinoseb	n/a	=	3.88	µg/L	EPA 515.3	0.14	0.4			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	Dinoseb	n/a	=	97	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4			
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Diphenamid	n/a	=	5.4	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Diphenamid	n/a	=	108	%	EPA 525.2	-88	-88	82	144	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Diphenamid	n/a	=	6.01	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Diphenamid	n/a	=	120	%	EPA 525.2	-88	-88	82	144	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Diphenamid	n/a	=	5.4	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Diphenamid	n/a	=	5.58	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Diphenamid	n/a	=	112	%	EPA 525.2	-88	-88	86	130	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Diphenamid	n/a	=	108	%	EPA 525.2	-88	-88	86	130	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Diphenamid	n/a	=	3	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Diphenamid	n/a	=	6.01	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Diphenamid	n/a	=	5.54	µg/L	EPA 525.2	0.02	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Diphenamid	n/a	=	111	%	EPA 525.2	-88	-88	86	130	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Diphenamid	n/a	=	120	%	EPA 525.2	-88	-88	86	130	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Diphenamid	n/a	=	8	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Disulfoton	n/a	=	0.0499	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Disulfoton	n/a	=	0.048	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Disulfoton	n/a	=	96	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Disulfoton	n/a	=	100	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Disulfoton	n/a	=	4	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Disulfoton	n/a	=	0.0428	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Disulfoton	n/a	=	0.0448	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Disulfoton	n/a	=	90	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Disulfoton	n/a	=	86	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Disulfoton	n/a	=	5	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Disulfoton	n/a	=	0.1	µg/L	EPA 525.2	0.01	0.01			EUM
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Disulfoton	n/a	=	201	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Disulfoton	n/a	=	0.0491	µg/L	EPA 525.2	0.01	0.01			IL
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Disulfoton	n/a	=	98	%	EPA 525.2	-88	-88	50	150	IL
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Disulfoton	n/a	=	69	%	EPA 525.2	-88	-88	0	25	IL
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Endosulfan I	n/a	=	0.104	µg/L	EPA 608	0.0017	0.02			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Endosulfan I	n/a	=	0.0952	µg/L	EPA 608	0.0017	0.02			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Endosulfan I	n/a	=	95	%	EPA 608	-88	-88	45	153	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Endosulfan I	n/a	=	104	%	EPA 608	-88	-88	45	153	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Endosulfan I	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Endosulfan I	n/a	=	0.0893	µg/L	EPA 608	0.0017	0.02			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Endosulfan I	n/a	=	89	%	EPA 608	-88	-88	45	153	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	Endosulfan I	n/a	=	0.0774	µg/L	EPA 608	0.0017	0.02			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	Endosulfan I	n/a	=	0.0799	µg/L	EPA 608	0.0017	0.02			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	Endosulfan I	n/a	=	80	%	EPA 608	-88	-88	45	153	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	Endosulfan I	n/a	=	77	%	EPA 608	-88	-88	45	153	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	Endosulfan I	n/a	=	3	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Endosulfan II	n/a	=	0.0993	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Endosulfan II	n/a	=	0.0915	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Endosulfan II	n/a	=	91	%	EPA 608	-88	-88	2	202	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Endosulfan II	n/a	=	99	%	EPA 608	-88	-88	2	202	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Endosulfan II	n/a	=	8	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Endosulfan II	n/a	=	0.088	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Endosulfan II	n/a	=	88	%	EPA 608	-88	-88	2	202	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	Endosulfan II	n/a	=	0.0712	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	Endosulfan II	n/a	=	0.0699	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	Endosulfan II	n/a	=	70	%	EPA 608	-88	-88	2	202	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	Endosulfan II	n/a	=	71	%	EPA 608	-88	-88	2	202	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	Endosulfan II	n/a	=	2	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Endosulfan sulfate	n/a	=	0.112	µg/L	EPA 608	0.008	0.05			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Endosulfan sulfate	n/a	=	0.0943	µg/L	EPA 608	0.008	0.05			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Endosulfan sulfate	n/a	=	94	%	EPA 608	-88	-88	26	144	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Endosulfan sulfate	n/a	=	112	%	EPA 608	-88	-88	26	144	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Endosulfan sulfate	n/a	=	17	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Endosulfan sulfate	n/a	=	0.097	µg/L	EPA 608	0.008	0.05			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Endosulfan sulfate	n/a	=	97	%	EPA 608	-88	-88	26	144	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	Endosulfan sulfate	n/a	=	0.0677	µg/L	EPA 608	0.008	0.05			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	Endosulfan sulfate	n/a	=	0.064	µg/L	EPA 608	0.008	0.05			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	Endosulfan sulfate	n/a	=	64	%	EPA 608	-88	-88	26	144	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	Endosulfan sulfate	n/a	=	68	%	EPA 608	-88	-88	26	144	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	Endosulfan sulfate	n/a	=	6	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Endrin	n/a	=	0.129	µg/L	EPA 608	0.0028	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Endrin	n/a	=	0.118	µg/L	EPA 608	0.0028	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Endrin	n/a	=	118	%	EPA 608	-88	-88	30	147	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Endrin	n/a	=	129	%	EPA 608	-88	-88	30	147	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Endrin	n/a	=	9	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Endrin	n/a	=	0.0977	µg/L	EPA 608	0.0028	0.01			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Endrin	n/a	=	98	%	EPA 608	-88	-88	30	147	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	Endrin	n/a	=	0.114	µg/L	EPA 608	0.0028	0.01			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	Endrin	n/a	=	0.11	µg/L	EPA 608	0.0028	0.01			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	Endrin	n/a	=	110	%	EPA 608	-88	-88	30	147	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	Endrin	n/a	=	114	%	EPA 608	-88	-88	30	147	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	Endrin	n/a	=	4	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Endrin aldehyde	n/a	=	0.0754	µg/L	EPA 608	0.003	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Endrin aldehyde	n/a	=	0.0894	µg/L	EPA 608	0.003	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Endrin aldehyde	n/a	=	89	%	EPA 608	-88	-88	41	203	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Endrin aldehyde	n/a	=	75	%	EPA 608	-88	-88	41	203	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Endrin aldehyde	n/a	=	17	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Endrin aldehyde	n/a	=	0.0707	µg/L	EPA 608	0.003	0.01			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Endrin aldehyde	n/a	=	71	%	EPA 608	-88	-88	41	203	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	Endrin aldehyde	n/a	=	0.0534	µg/L	EPA 608	0.003	0.01			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	Endrin aldehyde	n/a	=	0.0474	µg/L	EPA 608	0.003	0.01			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	Endrin aldehyde	n/a	=	47	%	EPA 608	-88	-88	30	180	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	Endrin aldehyde	n/a	=	53	%	EPA 608	-88	-88	30	180	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	Endrin aldehyde	n/a	=	12	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/4/2011	Pesticide	EPTC	n/a	=	4.82	µg/L	EPA 525.2	0.23	1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	EPTC	n/a	=	96	%	EPA 525.2	-88	-88	75	110	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	EPTC	n/a	=	5.45	µg/L	EPA 525.2	0.23	1			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	EPTC	n/a	=	109	%	EPA 525.2	-88	-88	75	110	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	EPTC	n/a	=	4.82	µg/L	EPA 525.2	0.23	1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	EPTC	n/a	=	4.82	µg/L	EPA 525.2	0.23	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	EPTC	n/a	=	96	%	EPA 525.2	-88	-88	67	119	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	EPTC	n/a	=	96	%	EPA 525.2	-88	-88	67	119	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	EPTC	n/a	=	0	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	EPTC	n/a	=	5.45	µg/L	EPA 525.2	0.23	1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	EPTC	n/a	=	5.07	µg/L	EPA 525.2	0.23	1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	EPTC	n/a	=	101	%	EPA 525.2	-88	-88	67	119	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	EPTC	n/a	=	109	%	EPA 525.2	-88	-88	67	119	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	EPTC	n/a	=	7	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Ethoprop	n/a	=	0.0478	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Ethoprop	n/a	=	0.0474	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Ethoprop	n/a	=	95	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Ethoprop	n/a	=	96	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Ethoprop	n/a	=	0.7	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Ethoprop	n/a	=	0.047	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Ethoprop	n/a	=	0.0518	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Ethoprop	n/a	=	104	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Ethoprop	n/a	=	94	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Ethoprop	n/a	=	10	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Ethoprop	n/a	=	0.0431	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Ethoprop	n/a	=	86	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Ethoprop	n/a	=	0.0456	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Ethoprop	n/a	=	91	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Ethoprop	n/a	=	6	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Ethyl parathion	n/a	=	0.0819	µg/L	EPA 525.2	0.0054	0.01			EUM
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Ethyl parathion	n/a	=	0.0804	µg/L	EPA 525.2	0.0054	0.01			EUM
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Ethyl parathion	n/a	=	161	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Ethyl parathion	n/a	=	164	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Ethyl parathion	n/a	=	2	%	EPA 525.2	-88	-88	0	25	EUM
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Ethyl parathion	n/a	=	0.0706	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Ethyl parathion	n/a	=	0.0813	µg/L	EPA 525.2	0.0054	0.01			EUM
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Ethyl parathion	n/a	=	163	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Ethyl parathion	n/a	=	141	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Ethyl parathion	n/a	=	14	%	EPA 525.2	-88	-88	0	25	EUM
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Ethyl parathion	n/a	=	0.0591	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Ethyl parathion	n/a	=	118	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Ethyl parathion	n/a	=	0.0819	µg/L	EPA 525.2	0.0054	0.01			EUM,IL
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Ethyl parathion	n/a	=	164	%	EPA 525.2	-88	-88	50	150	EUM,IL

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Ethyl parathion	n/a	=	32	%	EPA 525.2	-88	-88	0	25	EUM,IL
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Fensulfothion	n/a	=	0.0766	µg/L	EPA 525.2	0.0029	0.01			EUM
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Fensulfothion	n/a	=	0.148	µg/L	EPA 525.2	0.0029	0.01			EUM,IL
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Fensulfothion	n/a	=	296	%	EPA 525.2	-88	-88	50	150	EUM,IL
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Fensulfothion	n/a	=	153	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Fensulfothion	n/a	=	64	%	EPA 525.2	-88	-88	0	25	EUM,IL
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Fensulfothion	n/a	=	0.0565	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Fensulfothion	n/a	=	0.0656	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Fensulfothion	n/a	=	131	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Fensulfothion	n/a	=	113	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Fensulfothion	n/a	=	15	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Fensulfothion	n/a	=	0.0405	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Fensulfothion	n/a	=	81	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Fensulfothion	n/a	=	0.0348	µg/L	EPA 525.2	0.0029	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Fensulfothion	n/a	=	70	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Fensulfothion	n/a	=	15	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Fenthion	n/a	=	0.0393	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Fenthion	n/a	=	0.0385	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Fenthion	n/a	=	77	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Fenthion	n/a	=	79	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Fenthion	n/a	=	2	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Fenthion	n/a	=	0.0381	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Fenthion	n/a	=	0.0409	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Fenthion	n/a	=	82	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Fenthion	n/a	=	76	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Fenthion	n/a	=	7	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Fenthion	n/a	=	0.0372	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Fenthion	n/a	=	74	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Fenthion	n/a	=	0.0542	µg/L	EPA 525.2	0.0038	0.01			IL
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Fenthion	n/a	=	108	%	EPA 525.2	-88	-88	50	150	IL
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Fenthion	n/a	=	37	%	EPA 525.2	-88	-88	0	25	IL
2010/11-4	Lab	LCS	3/1/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	0.105	µg/L	EPA 608	0.0021	0.02			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0966	µg/L	EPA 608	0.0021	0.02			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	97	%	EPA 608	-88	-88	32	127	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	105	%	EPA 608	-88	-88	32	127	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	9	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0915	µg/L	EPA 608	0.0021	0.02			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	92	%	EPA 608	-88	-88	32	127	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0779	µg/L	EPA 608	0.0021	0.02			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0787	µg/L	EPA 608	0.0021	0.02			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	79	%	EPA 608	-88	-88	32	127	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	78	%	EPA 608	-88	-88	32	127	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	1	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01			X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01			X
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	Glyphosate	n/a	=	23.7	µg/L	EPA 547	1.8	5			X
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	Glyphosate	n/a	=	24.6	µg/L	EPA 547	1.8	5			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	Glyphosate	n/a	=	23	µg/L	EPA 547	1.8	5			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	Glyphosate	n/a	=	29.1	µg/L	EPA 547	1.8	5			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	Glyphosate	n/a	=	92	%	EPA 547	-88	-88	68	134	X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	Glyphosate	n/a	=	117	%	EPA 547	-88	-88	68	134	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	Glyphosate	n/a	=	98	%	EPA 547	-88	-88	68	134	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	Glyphosate	n/a	=	95	%	EPA 547	-88	-88	68	134	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	Glyphosate	n/a	=	3	%	EPA 547	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	Glyphosate	n/a	=	17	%	EPA 547	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/22/2011	Pesticide	Glyphosate	n/a	=	29.6	µg/L	EPA 547	1.8	5			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	Glyphosate	n/a	=	118	%	EPA 547	-88	-88	71	137	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Heptachlor	n/a	=	0.109	µg/L	EPA 608	0.0017	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Heptachlor	n/a	=	0.0994	µg/L	EPA 608	0.0017	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Heptachlor	n/a	=	99	%	EPA 608	-88	-88	34	111	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Heptachlor	n/a	=	109	%	EPA 608	-88	-88	34	111	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Heptachlor	n/a	=	9	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Heptachlor	n/a	=	0.0987	µg/L	EPA 608	0.0017	0.01			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Heptachlor	n/a	=	99	%	EPA 608	-88	-88	34	111	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	Heptachlor	n/a	=	0.0756	µg/L	EPA 608	0.0017	0.01			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	Heptachlor	n/a	=	0.0799	µg/L	EPA 608	0.0017	0.01			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	Heptachlor	n/a	=	80	%	EPA 608	-88	-88	34	111	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	Heptachlor	n/a	=	76	%	EPA 608	-88	-88	34	111	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	Heptachlor	n/a	=	6	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Heptachlor epoxide	n/a	=	0.104	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Heptachlor epoxide	n/a	=	0.095	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Heptachlor epoxide	n/a	=	95	%	EPA 608	-88	-88	37	142	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Heptachlor epoxide	n/a	=	104	%	EPA 608	-88	-88	37	142	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Heptachlor epoxide	n/a	=	9	%	EPA 608	-88	-88	0	30	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Heptachlor epoxide	n/a	=	0.0919	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Heptachlor epoxide	n/a	=	92	%	EPA 608	-88	-88	37	142	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	MO-CAM	matrix spike	3/5/2011	Pesticide	Heptachlor epoxide	n/a	=	0.0748	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	MO-CAM	matrix spike dup	3/5/2011	Pesticide	Heptachlor epoxide	n/a	=	0.0772	µg/L	EPA 608	0.0019	0.01			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/5/2011	Pesticide	Heptachlor epoxide	n/a	=	77	%	EPA 608	-88	-88	37	142	X
2010/11-4	MO-CAM	matrix spike, rec	3/5/2011	Pesticide	Heptachlor epoxide	n/a	=	75	%	EPA 608	-88	-88	37	142	X
2010/11-4	MO-CAM	matrix spike, RPD	3/5/2011	Pesticide	Heptachlor epoxide	n/a	=	3	%	EPA 608	-88	-88	0	30	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Malathion	n/a	=	0.0606	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Malathion	n/a	=	0.061	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Malathion	n/a	=	122	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Malathion	n/a	=	121	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Malathion	n/a	=	0.7	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Malathion	n/a	=	0.067	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Malathion	n/a	=	0.0749	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Malathion	n/a	=	150	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Malathion	n/a	=	134	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Malathion	n/a	=	11	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Malathion	n/a	=	0.0609	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Malathion	n/a	=	122	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Malathion	n/a	=	0.0823	µg/L	EPA 525.2	0.0076	0.01			EUM,IL
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Malathion	n/a	=	165	%	EPA 525.2	-88	-88	50	150	EUM,IL
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Malathion	n/a	=	30	%	EPA 525.2	-88	-88	0	25	EUM,IL
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Merphos	n/a	=	0.0558	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Merphos	n/a	=	0.0465	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Merphos	n/a	=	93	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Merphos	n/a	=	112	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Merphos	n/a	=	18	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Merphos	n/a	=	0.0542	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Merphos	n/a	=	0.0621	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Merphos	n/a	=	124	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Merphos	n/a	=	108	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Merphos	n/a	=	14	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Merphos	n/a	=	0.0412	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Merphos	n/a	=	82	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Merphos	n/a	=	0.046	µg/L	EPA 525.2	0.0058	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Merphos	n/a	=	92	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Merphos	n/a	=	11	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02			X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02			X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Methyl parathion	n/a	=	0.074	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Methyl parathion	n/a	=	0.0717	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Methyl parathion	n/a	=	143	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Methyl parathion	n/a	=	148	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Methyl parathion	n/a	=	3	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Methyl parathion	n/a	=	0.0635	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Methyl parathion	n/a	=	0.0743	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Methyl parathion	n/a	=	149	%	EPA 525.2	-88	-88	50	150	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Methyl parathion	n/a	=	127	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Methyl parathion	n/a	=	16	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Methyl parathion	n/a	=	0.0541	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Methyl parathion	n/a	=	108	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Methyl parathion	n/a	=	0.0771	µg/L	EPA 525.2	0.0063	0.01			EUM,IL
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Methyl parathion	n/a	=	154	%	EPA 525.2	-88	-88	50	150	EUM,IL
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Methyl parathion	n/a	=	35	%	EPA 525.2	-88	-88	0	25	EUM,IL
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Metolachlor	n/a	=	5.09	µg/L	EPA 525.2	0.056	0.1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Metolachlor	n/a	=	102	%	EPA 525.2	-88	-88	55	170	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Metolachlor	n/a	=	4.79	µg/L	EPA 525.2	0.056	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Metolachlor	n/a	=	96	%	EPA 525.2	-88	-88	55	170	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Metolachlor	n/a	=	5.09	µg/L	EPA 525.2	0.056	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Metolachlor	n/a	=	4.88	µg/L	EPA 525.2	0.056	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Metolachlor	n/a	=	98	%	EPA 525.2	-88	-88	53	178	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Metolachlor	n/a	=	102	%	EPA 525.2	-88	-88	53	178	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Metolachlor	n/a	=	4	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Metolachlor	n/a	=	4.79	µg/L	EPA 525.2	0.056	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Metolachlor	n/a	=	4.75	µg/L	EPA 525.2	0.056	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Metolachlor	n/a	=	95	%	EPA 525.2	-88	-88	53	178	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Metolachlor	n/a	=	96	%	EPA 525.2	-88	-88	53	178	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Metolachlor	n/a	=	0.8	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Metribuzin	n/a	=	4.52	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Metribuzin	n/a	=	90	%	EPA 525.2	-88	-88	44	149	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Metribuzin	n/a	=	4.01	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Metribuzin	n/a	=	80	%	EPA 525.2	-88	-88	44	149	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Metribuzin	n/a	=	4.52	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Metribuzin	n/a	=	4.39	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Metribuzin	n/a	=	88	%	EPA 525.2	-88	-88	64	155	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Metribuzin	n/a	=	90	%	EPA 525.2	-88	-88	64	155	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Metribuzin	n/a	=	3	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Metribuzin	n/a	=	4.01	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Metribuzin	n/a	=	4.05	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Metribuzin	n/a	=	81	%	EPA 525.2	-88	-88	64	155	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Metribuzin	n/a	=	80	%	EPA 525.2	-88	-88	64	155	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Metribuzin	n/a	=	1	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Mevinphos	n/a	=	0.0517	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Mevinphos	n/a	=	0.0536	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Mevinphos	n/a	=	107	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Mevinphos	n/a	=	103	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Mevinphos	n/a	=	4	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Mevinphos	n/a	=	0.0506	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Mevinphos	n/a	=	0.0573	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Mevinphos	n/a	=	115	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Mevinphos	n/a	=	101	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Mevinphos	n/a	=	12	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Mevinphos	n/a	=	0.0484	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Mevinphos	n/a	=	97	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Mevinphos	n/a	=	0.0531	µg/L	EPA 525.2	0.0042	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Mevinphos	n/a	=	106	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Mevinphos	n/a	=	9	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Molinate	n/a	=	5.21	µg/L	EPA 525.2	0.051	0.1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Molinate	n/a	=	104	%	EPA 525.2	-88	-88	76	116	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Molinate	n/a	=	5.29	µg/L	EPA 525.2	0.051	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Molinate	n/a	=	106	%	EPA 525.2	-88	-88	76	116	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Molinate	n/a	=	5.21	µg/L	EPA 525.2	0.051	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Molinate	n/a	=	5.23	µg/L	EPA 525.2	0.051	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Molinate	n/a	=	105	%	EPA 525.2	-88	-88	68	125	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Molinate	n/a	=	104	%	EPA 525.2	-88	-88	68	125	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Molinate	n/a	=	0.4	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Molinate	n/a	=	5.29	µg/L	EPA 525.2	0.051	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Molinate	n/a	=	5.54	µg/L	EPA 525.2	0.051	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Molinate	n/a	=	111	%	EPA 525.2	-88	-88	68	125	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Molinate	n/a	=	106	%	EPA 525.2	-88	-88	68	125	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Molinate	n/a	=	5	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Naled	n/a	=	0.0131	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Naled	n/a	=	0.0191	µg/L	EPA 525.2	0.0076	0.01			IL
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Naled	n/a	=	38	%	EPA 525.2	-88	-88	5	150	IL
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Naled	n/a	=	26	%	EPA 525.2	-88	-88	5	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Naled	n/a	=	37	%	EPA 525.2	-88	-88	0	25	IL
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Naled	n/a	=	0.026	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Naled	n/a	=	0.0288	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Naled	n/a	=	58	%	EPA 525.2	-88	-88	5	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Naled	n/a	=	52	%	EPA 525.2	-88	-88	5	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Naled	n/a	=	10	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Naled	n/a	=	0.0169	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Naled	n/a	=	34	%	EPA 525.2	-88	-88	5	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Naled	n/a	=	0.018	µg/L	EPA 525.2	0.0076	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Naled	n/a	=	36	%	EPA 525.2	-88	-88	5	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Naled	n/a	=	6	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	Pentachlorophenol	n/a	=	3.98	µg/L	EPA 515.3	0.02	0.2			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	Pentachlorophenol	n/a	=	4.01	µg/L	EPA 515.3	0.02	0.2			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	Pentachlorophenol	n/a	=	100	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	Pentachlorophenol	n/a	=	99	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	Pentachlorophenol	n/a	=	0.9	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	Pentachlorophenol	n/a	=	3.6	µg/L	EPA 515.3	0.04	0.2			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	Pentachlorophenol	n/a	=	3.58	µg/L	EPA 515.3	0.04	0.2			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	Pentachlorophenol	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	Pentachlorophenol	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	Pentachlorophenol	n/a	=	0.6	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	Pentachlorophenol	n/a	=	3.68	µg/L	EPA 515.3	0.02	0.2			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	Pentachlorophenol	n/a	=	92	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	Pentachlorophenol	n/a	=	3.84	µg/L	EPA 515.3	0.04	0.2			
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	Pentachlorophenol	n/a	=	96	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2			
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Phorate	n/a	=	0.0459	µg/L	EPA 525.2	0.003	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Phorate	n/a	=	0.0449	µg/L	EPA 525.2	0.003	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Phorate	n/a	=	90	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Phorate	n/a	=	92	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Phorate	n/a	=	2	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Phorate	n/a	=	0.0426	µg/L	EPA 525.2	0.003	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Phorate	n/a	=	0.0456	µg/L	EPA 525.2	0.003	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Phorate	n/a	=	91	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Phorate	n/a	=	85	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Phorate	n/a	=	7	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Phorate	n/a	=	0.0392	µg/L	EPA 525.2	0.003	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Phorate	n/a	=	78	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Phorate	n/a	=	0.0433	µg/L	EPA 525.2	0.003	0.01			X
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Phorate	n/a	=	87	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Phorate	n/a	=	10	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	000NONPJ	matrix spike	2/22/2011	Pesticide	Picloram	n/a	=	3.78	µg/L	EPA 515.3	0.34	0.6			X
2010/11-4	000NONPJ	matrix spike dup	2/22/2011	Pesticide	Picloram	n/a	=	3.73	µg/L	EPA 515.3	0.34	0.6			X
2010/11-4	000NONPJ	matrix spike dup, rec	2/22/2011	Pesticide	Picloram	n/a	=	93	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, rec	2/22/2011	Pesticide	Picloram	n/a	=	94	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	000NONPJ	matrix spike, RPD	2/22/2011	Pesticide	Picloram	n/a	=	1	%	EPA 515.3	-88	-88	0	30	X
2010/11-4	000NONPJ	matrix spike	3/8/2011	Pesticide	Picloram	n/a	=	4.22	µg/L	EPA 515.3	0.05	0.6			
2010/11-4	000NONPJ	matrix spike dup	3/8/2011	Pesticide	Picloram	n/a	=	3.61	µg/L	EPA 515.3	0.05	0.6			
2010/11-4	000NONPJ	matrix spike dup, rec	3/8/2011	Pesticide	Picloram	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, rec	3/8/2011	Pesticide	Picloram	n/a	=	106	%	EPA 515.3	-88	-88	70	130	
2010/11-4	000NONPJ	matrix spike, RPD	3/8/2011	Pesticide	Picloram	n/a	=	16	%	EPA 515.3	-88	-88	0	30	
2010/11-4	Lab	LCS	2/22/2011	Pesticide	Picloram	n/a	=	3.64	µg/L	EPA 515.3	0.34	0.6			X
2010/11-4	Lab	LCS, rec	2/22/2011	Pesticide	Picloram	n/a	=	91	%	EPA 515.3	-88	-88	70	130	X
2010/11-4	Lab	method blank	2/22/2011	Pesticide	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6			X
2010/11-4	Lab	LCS	3/8/2011	Pesticide	Picloram	n/a	=	3.72	µg/L	EPA 515.3	0.05	0.6			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS, rec	3/8/2011	Pesticide	Picloram	n/a	=	93	%	EPA 515.3	-88	-88	70	130	
2010/11-4	Lab	method blank	3/8/2011	Pesticide	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6			
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Prometon	n/a	=	4.15	µg/L	EPA 525.2	0.16	0.2			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Prometon	n/a	=	83	%	EPA 525.2	-88	-88	6	110	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Prometon	n/a	=	3.98	µg/L	EPA 525.2	0.16	0.2			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Prometon	n/a	=	80	%	EPA 525.2	-88	-88	6	110	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Prometon	n/a	=	4.15	µg/L	EPA 525.2	0.16	0.2			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Prometon	n/a	=	4.32	µg/L	EPA 525.2	0.16	0.2			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Prometon	n/a	=	86	%	EPA 525.2	-88	-88	5	148	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Prometon	n/a	=	83	%	EPA 525.2	-88	-88	5	148	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Prometon	n/a	=	4	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Prometon	n/a	=	3.98	µg/L	EPA 525.2	0.16	0.2			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Prometon	n/a	=	4.21	µg/L	EPA 525.2	0.16	0.2			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Prometon	n/a	=	84	%	EPA 525.2	-88	-88	5	148	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Prometon	n/a	=	80	%	EPA 525.2	-88	-88	5	148	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Prometon	n/a	=	6	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Prometryn	n/a	=	5.09	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Prometryn	n/a	=	102	%	EPA 525.2	-88	-88	34	152	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Prometryn	n/a	=	4.83	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Prometryn	n/a	=	97	%	EPA 525.2	-88	-88	34	152	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Prometryn	n/a	=	5.09	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Prometryn	n/a	=	5.06	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Prometryn	n/a	=	101	%	EPA 525.2	-88	-88	44	169	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Prometryn	n/a	=	102	%	EPA 525.2	-88	-88	44	169	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Prometryn	n/a	=	0.6	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Prometryn	n/a	=	4.83	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Prometryn	n/a	=	4.7	µg/L	EPA 525.2	0.074	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Prometryn	n/a	=	94	%	EPA 525.2	-88	-88	44	169	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Prometryn	n/a	=	97	%	EPA 525.2	-88	-88	44	169	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Prometryn	n/a	=	3	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0502	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0492	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	98	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	100	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	2	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0519	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0558	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	112	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	104	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	7	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0498	µg/L	EPA 525.2	0.0041	0.01			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	100	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0724	µg/L	EPA 525.2	0.0041	0.01			IL
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	145	%	EPA 525.2	-88	-88	50	150	IL
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	37	%	EPA 525.2	-88	-88	0	25	IL
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Simazine	n/a	=	4.37	µg/L	EPA 525.2	0.083	0.1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Simazine	n/a	=	87	%	EPA 525.2	-88	-88	54	156	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Simazine	n/a	=	3.9	µg/L	EPA 525.2	0.083	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Simazine	n/a	=	78	%	EPA 525.2	-88	-88	54	156	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Simazine	n/a	=	4.37	µg/L	EPA 525.2	0.083	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Simazine	n/a	=	4.97	µg/L	EPA 525.2	0.083	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Simazine	n/a	=	99	%	EPA 525.2	-88	-88	53	152	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Simazine	n/a	=	87	%	EPA 525.2	-88	-88	53	152	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Simazine	n/a	=	13	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Simazine	n/a	=	3.9	µg/L	EPA 525.2	0.083	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Simazine	n/a	=	3.84	µg/L	EPA 525.2	0.083	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Simazine	n/a	=	77	%	EPA 525.2	-88	-88	53	152	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Simazine	n/a	=	78	%	EPA 525.2	-88	-88	53	152	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Simazine	n/a	=	2	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0525	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0498	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	100	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	105	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	5	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0514	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0582	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	116	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	103	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	12	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0465	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	93	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0641	µg/L	EPA 525.2	0.0031	0.01			IL
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	128	%	EPA 525.2	-88	-88	50	150	IL
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	32	%	EPA 525.2	-88	-88	0	25	IL
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Terbacil	n/a	=	5.83	µg/L	EPA 525.2	0.55	2			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Terbacil	n/a	=	117	%	EPA 525.2	-88	-88	66	140	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Terbacil	n/a	=	6.06	µg/L	EPA 525.2	0.55	2			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Terbacil	n/a	=	121	%	EPA 525.2	-88	-88	66	140	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Terbacil	n/a	=	5.83	µg/L	EPA 525.2	0.55	2			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Terbacil	n/a	=	5.75	µg/L	EPA 525.2	0.55	2			X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Terbacil	n/a	=	115	%	EPA 525.2	-88	-88	56	159	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Terbacil	n/a	=	117	%	EPA 525.2	-88	-88	56	159	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Terbacil	n/a	=	1	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Terbacil	n/a	=	6.06	µg/L	EPA 525.2	0.55	2			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Terbacil	n/a	=	5.36	µg/L	EPA 525.2	0.55	2			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Terbacil	n/a	=	107	%	EPA 525.2	-88	-88	56	159	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Terbacil	n/a	=	121	%	EPA 525.2	-88	-88	56	159	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Terbacil	n/a	=	12	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Thiobencarb	n/a	=	4.52	µg/L	EPA 525.2	0.11	0.2			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Thiobencarb	n/a	=	90	%	EPA 525.2	-88	-88	57	162	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Thiobencarb	n/a	=	4.25	µg/L	EPA 525.2	0.11	0.2			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Thiobencarb	n/a	=	85	%	EPA 525.2	-88	-88	57	162	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Thiobencarb	n/a	=	4.52	µg/L	EPA 525.2	0.11	0.2			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Thiobencarb	n/a	=	4.43	µg/L	EPA 525.2	0.11	0.2			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Thiobencarb	n/a	=	89	%	EPA 525.2	-88	-88	71	160	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Thiobencarb	n/a	=	90	%	EPA 525.2	-88	-88	71	160	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Thiobencarb	n/a	=	2	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Thiobencarb	n/a	=	4.25	µg/L	EPA 525.2	0.11	0.2			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Thiobencarb	n/a	=	4.29	µg/L	EPA 525.2	0.11	0.2			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Thiobencarb	n/a	=	86	%	EPA 525.2	-88	-88	71	160	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Thiobencarb	n/a	=	85	%	EPA 525.2	-88	-88	71	160	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Thiobencarb	n/a	=	0.9	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Tokuthion	n/a	=	0.0478	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Tokuthion	n/a	=	0.0417	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Tokuthion	n/a	=	83	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Tokuthion	n/a	=	96	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Tokuthion	n/a	=	14	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Tokuthion	n/a	=	0.0496	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Tokuthion	n/a	=	0.0534	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Tokuthion	n/a	=	107	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Tokuthion	n/a	=	99	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Tokuthion	n/a	=	7	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Tokuthion	n/a	=	0.0441	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Tokuthion	n/a	=	88	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Tokuthion	n/a	=	0.0643	µg/L	EPA 525.2	0.0078	0.01			IL
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Tokuthion	n/a	=	129	%	EPA 525.2	-88	-88	50	150	IL
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Tokuthion	n/a	=	37	%	EPA 525.2	-88	-88	0	25	IL
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5			X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5			X
2010/11-4	Lab	LCS	2/25/2011	Pesticide	Trichloronate	n/a	=	0.0468	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS dup	2/25/2011	Pesticide	Trichloronate	n/a	=	0.0442	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS dup, rec	2/25/2011	Pesticide	Trichloronate	n/a	=	88	%	EPA 525.2	-88	-88	50	150	X

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-4	Lab	LCS, rec	2/25/2011	Pesticide	Trichloronate	n/a	=	94	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	2/25/2011	Pesticide	Trichloronate	n/a	=	6	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	2/25/2011	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS	3/1/2011	Pesticide	Trichloronate	n/a	=	0.0489	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS dup	3/1/2011	Pesticide	Trichloronate	n/a	=	0.052	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS dup, rec	3/1/2011	Pesticide	Trichloronate	n/a	=	104	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, rec	3/1/2011	Pesticide	Trichloronate	n/a	=	98	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	LCS, RPD	3/1/2011	Pesticide	Trichloronate	n/a	=	6	%	EPA 525.2	-88	-88	0	25	X
2010/11-4	Lab	method blank	3/1/2011	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS	3/2/2011	Pesticide	Trichloronate	n/a	=	0.046	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS, rec	3/2/2011	Pesticide	Trichloronate	n/a	=	92	%	EPA 525.2	-88	-88	50	150	X
2010/11-4	Lab	method blank	3/2/2011	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			X
2010/11-4	Lab	LCS dup	3/3/2011	Pesticide	Trichloronate	n/a	=	0.0669	µg/L	EPA 525.2	0.0067	0.01			IL
2010/11-4	Lab	LCS dup, rec	3/3/2011	Pesticide	Trichloronate	n/a	=	134	%	EPA 525.2	-88	-88	50	150	IL
2010/11-4	Lab	LCS, RPD	3/3/2011	Pesticide	Trichloronate	n/a	=	37	%	EPA 525.2	-88	-88	0	25	IL
2010/11-4	Lab	LCS	3/4/2011	Pesticide	Trithion	n/a	=	4.9	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	Lab	LCS, rec	3/4/2011	Pesticide	Trithion	n/a	=	98	%	EPA 525.2	-88	-88	62	149	X
2010/11-4	Lab	method blank	3/4/2011	Pesticide	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	Lab	LCS	3/7/2011	Pesticide	Trithion	n/a	=	4.32	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	Lab	LCS, rec	3/7/2011	Pesticide	Trithion	n/a	=	86	%	EPA 525.2	-88	-88	62	149	X
2010/11-4	Lab	method blank	3/7/2011	Pesticide	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	MO-CAM	matrix spike	3/4/2011	Pesticide	Trithion	n/a	=	4.9	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/4/2011	Pesticide	Trithion	n/a	=	4.79	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/4/2011	Pesticide	Trithion	n/a	=	96	%	EPA 525.2	-88	-88	86	144	X
2010/11-4	MO-CAM	matrix spike, rec	3/4/2011	Pesticide	Trithion	n/a	=	98	%	EPA 525.2	-88	-88	86	144	X
2010/11-4	MO-CAM	matrix spike, RPD	3/4/2011	Pesticide	Trithion	n/a	=	2	%	EPA 525.2	-88	-88	0	30	X
2010/11-4	MO-CAM	matrix spike	3/7/2011	Pesticide	Trithion	n/a	=	4.32	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	MO-CAM	matrix spike dup	3/7/2011	Pesticide	Trithion	n/a	=	4.82	µg/L	EPA 525.2	0.01	0.1			X
2010/11-4	MO-CAM	matrix spike dup, rec	3/7/2011	Pesticide	Trithion	n/a	=	96	%	EPA 525.2	-88	-88	86	144	X
2010/11-4	MO-CAM	matrix spike, rec	3/7/2011	Pesticide	Trithion	n/a	=	86	%	EPA 525.2	-88	-88	86	144	X
2010/11-4	MO-CAM	matrix spike, RPD	3/7/2011	Pesticide	Trithion	n/a	=	11	%	EPA 525.2	-88	-88	0	30	X
2010/11-5	000NONPJ	matrix spike	4/22/2011	Anion	Chloride	n/a	=	454	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup	4/22/2011	Anion	Chloride	n/a	=	457	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup, rec	4/22/2011	Anion	Chloride	n/a	=	89	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, rec	4/22/2011	Anion	Chloride	n/a	=	83	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, RPD	4/22/2011	Anion	Chloride	n/a	=	0.5	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike	4/23/2011	Anion	Chloride	n/a	=	61.4	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup	4/23/2011	Anion	Chloride	n/a	=	61.6	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup, rec	4/23/2011	Anion	Chloride	n/a	=	96	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, rec	4/23/2011	Anion	Chloride	n/a	=	96	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, RPD	4/23/2011	Anion	Chloride	n/a	=	0.4	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike	4/26/2011	Anion	Chloride	n/a	=	120	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike	4/26/2011	Anion	Chloride	n/a	=	93.7	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup	4/26/2011	Anion	Chloride	n/a	=	94.4	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup	4/26/2011	Anion	Chloride	n/a	=	119	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup, rec	4/26/2011	Anion	Chloride	n/a	=	99	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike dup, rec	4/26/2011	Anion	Chloride	n/a	=	92	%	EPA 300.0	-88	-88	72	118	D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	000NONPJ	matrix spike, rec	4/26/2011	Anion	Chloride	n/a	=	100	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, rec	4/26/2011	Anion	Chloride	n/a	=	90	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, RPD	4/26/2011	Anion	Chloride	n/a	=	0.8	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike, RPD	4/26/2011	Anion	Chloride	n/a	=	0.4	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike	5/2/2011	Anion	Chloride	n/a	=	64.4	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike	5/2/2011	Anion	Chloride	n/a	=	133	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup	5/2/2011	Anion	Chloride	n/a	=	63.9	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup	5/2/2011	Anion	Chloride	n/a	=	133	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup, rec	5/2/2011	Anion	Chloride	n/a	=	79	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike dup, rec	5/2/2011	Anion	Chloride	n/a	=	93	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, rec	5/2/2011	Anion	Chloride	n/a	=	94	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, rec	5/2/2011	Anion	Chloride	n/a	=	77	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, RPD	5/2/2011	Anion	Chloride	n/a	=	0.5	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike, RPD	5/2/2011	Anion	Chloride	n/a	=	0.8	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike	5/3/2011	Anion	Chloride	n/a	=	75.5	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup	5/3/2011	Anion	Chloride	n/a	=	72.9	mg/L	EPA 300.0	1	5			D
2010/11-5	000NONPJ	matrix spike dup, rec	5/3/2011	Anion	Chloride	n/a	=	80	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, rec	5/3/2011	Anion	Chloride	n/a	=	87	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, RPD	5/3/2011	Anion	Chloride	n/a	=	4	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike	5/4/2011	Anion	Chloride	n/a	=	38.7	mg/L	EPA 300.0	0.2	1			D
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Anion	Chloride	n/a	=	38.3	mg/L	EPA 300.0	0.2	1			D
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Anion	Chloride	n/a	=	92	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Anion	Chloride	n/a	=	97	%	EPA 300.0	-88	-88	72	118	D
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Anion	Chloride	n/a	=	1	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	Lab	LCS	4/22/2011	Anion	Chloride	n/a	=	4.01	mg/L	EPA 300.0	0.1	0.5			
2010/11-5	Lab	LCS, rec	4/22/2011	Anion	Chloride	n/a	=	100	%	EPA 300.0	-88	-88	90	110	
2010/11-5	Lab	method blank	4/22/2011	Anion	Chloride	n/a	<	0.1	mg/L	EPA 300.0	0.1	0.5			
2010/11-5	Lab	LCS	4/26/2011	Anion	Chloride	n/a	=	3.74	mg/L	EPA 300.0	0.1	0.5			
2010/11-5	Lab	LCS, rec	4/26/2011	Anion	Chloride	n/a	=	93	%	EPA 300.0	-88	-88	90	110	
2010/11-5	Lab	method blank	4/26/2011	Anion	Chloride	n/a	DNQ	0.113	mg/L	EPA 300.0	0.1	0.5			IP
2010/11-5	Lab	LCS	5/2/2011	Anion	Chloride	n/a	=	4.04	mg/L	EPA 300.0	0.1	0.5			
2010/11-5	Lab	LCS, rec	5/2/2011	Anion	Chloride	n/a	=	101	%	EPA 300.0	-88	-88	90	110	
2010/11-5	Lab	method blank	5/2/2011	Anion	Chloride	n/a	<	0.1	mg/L	EPA 300.0	0.1	0.5			
2010/11-5	Lab	LCS	5/3/2011	Anion	Chloride	n/a	=	4.04	mg/L	EPA 300.0	0.1	0.5			
2010/11-5	Lab	LCS, rec	5/3/2011	Anion	Chloride	n/a	=	101	%	EPA 300.0	-88	-88	90	110	
2010/11-5	Lab	method blank	5/3/2011	Anion	Chloride	n/a	<	0.1	mg/L	EPA 300.0	0.1	0.5			
2010/11-5	000NONPJ	matrix spike	4/22/2011	Anion	Fluoride	n/a	=	20	mg/L	EPA 300.0	0.2	1			D
2010/11-5	000NONPJ	matrix spike dup	4/22/2011	Anion	Fluoride	n/a	=	20.3	mg/L	EPA 300.0	0.2	1			D
2010/11-5	000NONPJ	matrix spike dup, rec	4/22/2011	Anion	Fluoride	n/a	=	98	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike, rec	4/22/2011	Anion	Fluoride	n/a	=	97	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike, RPD	4/22/2011	Anion	Fluoride	n/a	=	1	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike	4/23/2011	Anion	Fluoride	n/a	=	19.5	mg/L	EPA 300.0	0.2	1			D
2010/11-5	000NONPJ	matrix spike dup	4/23/2011	Anion	Fluoride	n/a	=	19.6	mg/L	EPA 300.0	0.2	1			D
2010/11-5	000NONPJ	matrix spike dup, rec	4/23/2011	Anion	Fluoride	n/a	=	98	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike, rec	4/23/2011	Anion	Fluoride	n/a	=	97	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike, RPD	4/23/2011	Anion	Fluoride	n/a	=	0.6	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike	5/2/2011	Anion	Fluoride	n/a	=	21.1	mg/L	EPA 300.0	0.2	1			D

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	000NONPJ	matrix spike	5/2/2011	Anion	Fluoride	n/a	=	19.9	mg/L	EPA 300.0	0.2	1			D
2010/11-5	000NONPJ	matrix spike dup	5/2/2011	Anion	Fluoride	n/a	=	20	mg/L	EPA 300.0	0.2	1			D
2010/11-5	000NONPJ	matrix spike dup	5/2/2011	Anion	Fluoride	n/a	=	21.2	mg/L	EPA 300.0	0.2	1			D
2010/11-5	000NONPJ	matrix spike dup, rec	5/2/2011	Anion	Fluoride	n/a	=	98	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike dup, rec	5/2/2011	Anion	Fluoride	n/a	=	98	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike, rec	5/2/2011	Anion	Fluoride	n/a	=	98	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike, rec	5/2/2011	Anion	Fluoride	n/a	=	98	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike, RPD	5/2/2011	Anion	Fluoride	n/a	=	0.4	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike, RPD	5/2/2011	Anion	Fluoride	n/a	=	0.5	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike	5/3/2011	Anion	Fluoride	n/a	=	20	mg/L	EPA 300.0	0.2	1			D
2010/11-5	000NONPJ	matrix spike dup	5/3/2011	Anion	Fluoride	n/a	=	19.9	mg/L	EPA 300.0	0.2	1			D
2010/11-5	000NONPJ	matrix spike dup, rec	5/3/2011	Anion	Fluoride	n/a	=	97	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike, rec	5/3/2011	Anion	Fluoride	n/a	=	97	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike, RPD	5/3/2011	Anion	Fluoride	n/a	=	0.2	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	000NONPJ	matrix spike	5/4/2011	Anion	Fluoride	n/a	=	4.23	mg/L	EPA 300.0	0.04	0.2			D
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Anion	Fluoride	n/a	=	4.24	mg/L	EPA 300.0	0.04	0.2			D
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Anion	Fluoride	n/a	=	93	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Anion	Fluoride	n/a	=	93	%	EPA 300.0	-88	-88	79	109	D
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Anion	Fluoride	n/a	=	0.2	%	EPA 300.0	-88	-88	0	20	D
2010/11-5	Lab	LCS	4/22/2011	Anion	Fluoride	n/a	=	2.02	mg/L	EPA 300.0	0.02	0.1			
2010/11-5	Lab	LCS, rec	4/22/2011	Anion	Fluoride	n/a	=	101	%	EPA 300.0	-88	-88	90	110	
2010/11-5	Lab	method blank	4/22/2011	Anion	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1			
2010/11-5	Lab	LCS	5/2/2011	Anion	Fluoride	n/a	=	2.12	mg/L	EPA 300.0	0.02	0.1			
2010/11-5	Lab	LCS, rec	5/2/2011	Anion	Fluoride	n/a	=	106	%	EPA 300.0	-88	-88	90	110	
2010/11-5	Lab	method blank	5/2/2011	Anion	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1			
2010/11-5	Lab	LCS	5/3/2011	Anion	Fluoride	n/a	=	2.1	mg/L	EPA 300.0	0.02	0.1			
2010/11-5	Lab	LCS, rec	5/3/2011	Anion	Fluoride	n/a	=	105	%	EPA 300.0	-88	-88	90	110	
2010/11-5	Lab	method blank	5/3/2011	Anion	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1			
2010/11-5	000NONPJ	matrix spike	4/25/2011	Anion	Perchlorate	n/a	=	9.01	µg/L	EPA 314.0	0.64	2			
2010/11-5	000NONPJ	matrix spike dup	4/25/2011	Anion	Perchlorate	n/a	=	9.4	µg/L	EPA 314.0	0.64	2			
2010/11-5	000NONPJ	matrix spike dup, rec	4/25/2011	Anion	Perchlorate	n/a	=	94	%	EPA 314.0	-88	-88	80	120	
2010/11-5	000NONPJ	matrix spike, rec	4/25/2011	Anion	Perchlorate	n/a	=	90	%	EPA 314.0	-88	-88	80	120	
2010/11-5	000NONPJ	matrix spike, RPD	4/25/2011	Anion	Perchlorate	n/a	=	4	%	EPA 314.0	-88	-88	0	15	
2010/11-5	000NONPJ	matrix spike	5/2/2011	Anion	Perchlorate	n/a	=	8.67	µg/L	EPA 314.0	0.64	2			
2010/11-5	000NONPJ	matrix spike dup	5/2/2011	Anion	Perchlorate	n/a	=	9.48	µg/L	EPA 314.0	0.64	2			
2010/11-5	000NONPJ	matrix spike dup, rec	5/2/2011	Anion	Perchlorate	n/a	=	95	%	EPA 314.0	-88	-88	80	120	
2010/11-5	000NONPJ	matrix spike, rec	5/2/2011	Anion	Perchlorate	n/a	=	87	%	EPA 314.0	-88	-88	80	120	
2010/11-5	000NONPJ	matrix spike, RPD	5/2/2011	Anion	Perchlorate	n/a	=	9	%	EPA 314.0	-88	-88	0	15	
2010/11-5	000NONPJ	matrix spike	5/3/2011	Anion	Perchlorate	n/a	=	9.19	µg/L	EPA 314.0	0.64	2			
2010/11-5	000NONPJ	matrix spike dup	5/3/2011	Anion	Perchlorate	n/a	=	8.71	µg/L	EPA 314.0	0.64	2			
2010/11-5	000NONPJ	matrix spike dup, rec	5/3/2011	Anion	Perchlorate	n/a	=	87	%	EPA 314.0	-88	-88	80	120	
2010/11-5	000NONPJ	matrix spike, rec	5/3/2011	Anion	Perchlorate	n/a	=	92	%	EPA 314.0	-88	-88	80	120	
2010/11-5	000NONPJ	matrix spike, RPD	5/3/2011	Anion	Perchlorate	n/a	=	5	%	EPA 314.0	-88	-88	0	15	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Anion	Perchlorate	n/a	=	9.87	µg/L	EPA 314.0	0.64	2			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Anion	Perchlorate	n/a	=	10.4	µg/L	EPA 314.0	0.64	2			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Anion	Perchlorate	n/a	=	92	%	EPA 314.0	-88	-88	80	120	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Anion	Perchlorate	n/a	=	87	%	EPA 314.0	-88	-88	80	120	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Anion	Perchlorate	n/a	=	5	%	EPA 314.0	-88	-88	0	15	
2010/11-5	Lab	LCS	4/25/2011	Anion	Perchlorate	n/a	=	10.1	µg/L	EPA 314.0	0.64	2			
2010/11-5	Lab	LCS, rec	4/25/2011	Anion	Perchlorate	n/a	=	101	%	EPA 314.0	-88	-88	85	115	
2010/11-5	Lab	method blank	4/25/2011	Anion	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2			
2010/11-5	Lab	LCS	5/2/2011	Anion	Perchlorate	n/a	=	9.28	µg/L	EPA 314.0	0.64	2			
2010/11-5	Lab	LCS, rec	5/2/2011	Anion	Perchlorate	n/a	=	93	%	EPA 314.0	-88	-88	85	115	
2010/11-5	Lab	method blank	5/2/2011	Anion	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2			
2010/11-5	Lab	LCS	5/3/2011	Anion	Perchlorate	n/a	=	10.9	µg/L	EPA 314.0	0.64	2			
2010/11-5	Lab	LCS, rec	5/3/2011	Anion	Perchlorate	n/a	=	109	%	EPA 314.0	-88	-88	85	115	
2010/11-5	Lab	method blank	5/3/2011	Anion	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2			
2010/11-5	Lab	LCS	5/4/2011	Anion	Perchlorate	n/a	=	10.2	µg/L	EPA 314.0	0.64	2			
2010/11-5	Lab	LCS, rec	5/4/2011	Anion	Perchlorate	n/a	=	102	%	EPA 314.0	-88	-88	85	115	
2010/11-5	Lab	method blank	5/4/2011	Anion	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2			
2010/11-5	Lab	LCS	4/26/2011	Cation	Calcium	Total	=	48.8	mg/L	EPA 200.7	0.016	0.1			
2010/11-5	Lab	LCS, rec	4/26/2011	Cation	Calcium	Total	=	97	%	EPA 200.7	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Cation	Calcium	Total	<	0.016	mg/L	EPA 200.7	0.016	0.1			
2010/11-5	Lab	LCS	5/5/2011	Cation	Calcium	Total	=	48.2	mg/L	EPA 200.7	0.016	0.1			
2010/11-5	Lab	LCS, rec	5/5/2011	Cation	Calcium	Total	=	96	%	EPA 200.7	-88	-88	85	115	
2010/11-5	Lab	method blank	5/5/2011	Cation	Calcium	Total	<	0.016	mg/L	EPA 200.7	0.016	0.1			
2010/11-5	ME-CC	matrix spike	5/5/2011	Cation	Calcium	Total	=	137	mg/L	EPA 200.7	0.016	0.1			
2010/11-5	ME-CC	matrix spike dup	5/5/2011	Cation	Calcium	Total	=	136	mg/L	EPA 200.7	0.016	0.1			
2010/11-5	ME-CC	matrix spike dup, rec	5/5/2011	Cation	Calcium	Total	=	97	%	EPA 200.7	-88	-88	70	130	
2010/11-5	ME-CC	matrix spike, rec	5/5/2011	Cation	Calcium	Total	=	97	%	EPA 200.7	-88	-88	70	130	
2010/11-5	ME-CC	matrix spike, RPD	5/5/2011	Cation	Calcium	Total	=	0.2	%	EPA 200.7	-88	-88	0	30	
2010/11-5	MO-HUE	matrix spike	4/26/2011	Cation	Calcium	Total	=	372	mg/L	EPA 200.7	0.078	0.5			D
2010/11-5	MO-HUE	matrix spike dup	4/26/2011	Cation	Calcium	Total	=	369	mg/L	EPA 200.7	0.078	0.5			D
2010/11-5	MO-HUE	matrix spike dup, rec	4/26/2011	Cation	Calcium	Total	=	117	%	EPA 200.7	-88	-88	70	130	D
2010/11-5	MO-HUE	matrix spike, rec	4/26/2011	Cation	Calcium	Total	=	123	%	EPA 200.7	-88	-88	70	130	D
2010/11-5	MO-HUE	matrix spike, RPD	4/26/2011	Cation	Calcium	Total	=	0.8	%	EPA 200.7	-88	-88	0	30	D
2010/11-5	Lab	LCS	4/26/2011	Cation	Magnesium	Total	=	48.1	mg/L	EPA 200.7	0.012	0.1			
2010/11-5	Lab	LCS, rec	4/26/2011	Cation	Magnesium	Total	=	96	%	EPA 200.7	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Cation	Magnesium	Total	<	0.012	mg/L	EPA 200.7	0.012	0.1			
2010/11-5	Lab	LCS	5/5/2011	Cation	Magnesium	Total	=	49.6	mg/L	EPA 200.7	0.012	0.1			
2010/11-5	Lab	LCS, rec	5/5/2011	Cation	Magnesium	Total	=	99	%	EPA 200.7	-88	-88	85	115	
2010/11-5	Lab	method blank	5/5/2011	Cation	Magnesium	Total	<	0.012	mg/L	EPA 200.7	0.012	0.1			
2010/11-5	ME-CC	matrix spike	5/5/2011	Cation	Magnesium	Total	=	110	mg/L	EPA 200.7	0.012	0.1			
2010/11-5	ME-CC	matrix spike dup	5/5/2011	Cation	Magnesium	Total	=	110	mg/L	EPA 200.7	0.012	0.1			
2010/11-5	ME-CC	matrix spike dup, rec	5/5/2011	Cation	Magnesium	Total	=	103	%	EPA 200.7	-88	-88	70	130	
2010/11-5	ME-CC	matrix spike, rec	5/5/2011	Cation	Magnesium	Total	=	102	%	EPA 200.7	-88	-88	70	130	
2010/11-5	ME-CC	matrix spike, RPD	5/5/2011	Cation	Magnesium	Total	=	0.2	%	EPA 200.7	-88	-88	0	30	
2010/11-5	MO-HUE	matrix spike	4/26/2011	Cation	Magnesium	Total	=	439	mg/L	EPA 200.7	0.06	0.5			D
2010/11-5	MO-HUE	matrix spike dup	4/26/2011	Cation	Magnesium	Total	=	434	mg/L	EPA 200.7	0.06	0.5			D
2010/11-5	MO-HUE	matrix spike dup, rec	4/26/2011	Cation	Magnesium	Total	=	115	%	EPA 200.7	-88	-88	70	130	D
2010/11-5	MO-HUE	matrix spike, rec	4/26/2011	Cation	Magnesium	Total	=	124	%	EPA 200.7	-88	-88	70	130	D
2010/11-5	MO-HUE	matrix spike, RPD	4/26/2011	Cation	Magnesium	Total	=	1	%	EPA 200.7	-88	-88	0	30	D
2010/11-5	000NONPJ	lab duplicate	4/28/2011	Conventional	Alkalinity as CaCO3	n/a	=	243	mg/L	SM 2320 B	1.2	10		15	
2010/11-5	000NONPJ	lab duplicate	5/6/2011	Conventional	Alkalinity as CaCO3	n/a	=	192	mg/L	SM 2320 B	1.2	10		15	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS	4/28/2011	Conventional	Alkalinity as CaCO3	n/a	=	239	mg/L	SM 2320 B	1.2	10			
2010/11-5	Lab	LCS, rec	4/28/2011	Conventional	Alkalinity as CaCO3	n/a	=	96	%	SM 2320 B	-88	-88	94	108	
2010/11-5	Lab	method blank	4/28/2011	Conventional	Alkalinity as CaCO3	n/a	DNQ	5.44	mg/L	SM 2320 B	1.2	10			IP
2010/11-5	Lab	LCS	5/6/2011	Conventional	Alkalinity as CaCO3	n/a	=	248	mg/L	SM 2320 B	1.2	10			
2010/11-5	Lab	LCS, rec	5/6/2011	Conventional	Alkalinity as CaCO3	n/a	=	99	%	SM 2320 B	-88	-88	94	108	
2010/11-5	Lab	method blank	5/6/2011	Conventional	Alkalinity as CaCO3	n/a	DNQ	4.96	mg/L	SM 2320 B	1.2	10			IP
2010/11-5	Lab	LCS	4/26/2011	Conventional	BOD	n/a	=	177	mg/L	SM 5210 B	0.1	2			
2010/11-5	Lab	LCS, rec	4/26/2011	Conventional	BOD	n/a	=	89	%	SM 5210 B	-88	-88	85	115	
2010/11-5	Lab	LCS	5/4/2011	Conventional	BOD	n/a	=	194	mg/L	SM 5210 B	0.1	2			
2010/11-5	Lab	LCS	5/4/2011	Conventional	BOD	n/a	=	199	mg/L	SM 5210 B	0.1	2			
2010/11-5	Lab	LCS, rec	5/4/2011	Conventional	BOD	n/a	=	101	%	SM 5210 B	-88	-88	85	115	
2010/11-5	Lab	LCS, rec	5/4/2011	Conventional	BOD	n/a	=	98	%	SM 5210 B	-88	-88	85	115	
2010/11-5	000NONPJ	lab duplicate	4/20/2011	Conventional	COD	n/a	=	2320	mg/L	EPA 410.4	9.2	25			D
2010/11-5	000NONPJ	matrix spike	4/20/2011	Conventional	COD	n/a	=	3620	mg/L	EPA 410.4	3.7	10			D
2010/11-5	000NONPJ	matrix spike dup	4/20/2011	Conventional	COD	n/a	=	3620	mg/L	EPA 410.4	3.7	10			D
2010/11-5	000NONPJ	matrix spike dup, rec	4/20/2011	Conventional	COD	n/a	=	101	%	EPA 410.4	-88	-88	90	110	D
2010/11-5	000NONPJ	matrix spike, rec	4/20/2011	Conventional	COD	n/a	=	101	%	EPA 410.4	-88	-88	90	110	D
2010/11-5	000NONPJ	matrix spike, RPD	4/20/2011	Conventional	COD	n/a	=	0.07	%	EPA 410.4	-88	-88	0	15	D
2010/11-5	000NONPJ	lab duplicate	5/2/2011	Conventional	COD	n/a	=	12500	mg/L	EPA 410.4	37	100			D
2010/11-5	000NONPJ	matrix spike	5/2/2011	Conventional	COD	n/a	=	3690	mg/L	EPA 410.4	3.7	10			D,GB
2010/11-5	000NONPJ	matrix spike	5/2/2011	Conventional	COD	n/a	=	2400	mg/L	EPA 410.4	3.7	10			D
2010/11-5	000NONPJ	matrix spike dup	5/2/2011	Conventional	COD	n/a	=	2400	mg/L	EPA 410.4	3.7	10			D
2010/11-5	000NONPJ	matrix spike dup	5/2/2011	Conventional	COD	n/a	=	3690	mg/L	EPA 410.4	3.7	10			D,GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/2/2011	Conventional	COD	n/a	=	87	%	EPA 410.4	-88	-88	90	110	D,GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/2/2011	Conventional	COD	n/a	=	98	%	EPA 410.4	-88	-88	90	110	D
2010/11-5	000NONPJ	matrix spike, rec	5/2/2011	Conventional	COD	n/a	=	87	%	EPA 410.4	-88	-88	90	110	D,GB
2010/11-5	000NONPJ	matrix spike, rec	5/2/2011	Conventional	COD	n/a	=	98	%	EPA 410.4	-88	-88	90	110	D
2010/11-5	000NONPJ	matrix spike, RPD	5/2/2011	Conventional	COD	n/a	=	0.005	%	EPA 410.4	-88	-88	0	15	D
2010/11-5	000NONPJ	matrix spike, RPD	5/2/2011	Conventional	COD	n/a	=	0.02	%	EPA 410.4	-88	-88	0	15	D
2010/11-5	000NONPJ	lab duplicate	5/3/2011	Conventional	COD	n/a	=	6700	mg/L	EPA 410.4	18	50			D
2010/11-5	000NONPJ	matrix spike	5/3/2011	Conventional	COD	n/a	=	239	mg/L	EPA 410.4	3.7	10			D
2010/11-5	000NONPJ	matrix spike	5/3/2011	Conventional	COD	n/a	=	203	mg/L	EPA 410.4	3.7	10			D
2010/11-5	000NONPJ	matrix spike dup	5/3/2011	Conventional	COD	n/a	=	200	mg/L	EPA 410.4	3.7	10			D
2010/11-5	000NONPJ	matrix spike dup	5/3/2011	Conventional	COD	n/a	=	237	mg/L	EPA 410.4	3.7	10			D
2010/11-5	000NONPJ	matrix spike dup, rec	5/3/2011	Conventional	COD	n/a	=	99	%	EPA 410.4	-88	-88	90	110	D
2010/11-5	000NONPJ	matrix spike dup, rec	5/3/2011	Conventional	COD	n/a	=	98	%	EPA 410.4	-88	-88	90	110	D
2010/11-5	000NONPJ	matrix spike, rec	5/3/2011	Conventional	COD	n/a	=	100	%	EPA 410.4	-88	-88	90	110	D
2010/11-5	000NONPJ	matrix spike, rec	5/3/2011	Conventional	COD	n/a	=	100	%	EPA 410.4	-88	-88	90	110	D
2010/11-5	000NONPJ	matrix spike, RPD	5/3/2011	Conventional	COD	n/a	=	1	%	EPA 410.4	-88	-88	0	15	D
2010/11-5	000NONPJ	matrix spike, RPD	5/3/2011	Conventional	COD	n/a	=	0.7	%	EPA 410.4	-88	-88	0	15	D
2010/11-5	Lab	LCS	4/20/2011	Conventional	COD	n/a	=	940	mg/L	EPA 410.4	1.8	5			
2010/11-5	Lab	LCS, rec	4/20/2011	Conventional	COD	n/a	=	94	%	EPA 410.4	-88	-88	90	110	
2010/11-5	Lab	method blank	4/20/2011	Conventional	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5			
2010/11-5	Lab	LCS	5/2/2011	Conventional	COD	n/a	=	933	mg/L	EPA 410.4	1.8	5			
2010/11-5	Lab	LCS, rec	5/2/2011	Conventional	COD	n/a	=	93	%	EPA 410.4	-88	-88	90	110	
2010/11-5	Lab	method blank	5/2/2011	Conventional	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5			
2010/11-5	Lab	LCS	5/3/2011	Conventional	COD	n/a	=	936	mg/L	EPA 410.4	1.8	5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/3/2011	Conventional	COD	n/a	=	94	%	EPA 410.4	-88	-88	90	110	
2010/11-5	Lab	method blank	5/3/2011	Conventional	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5			
2010/11-5	Lab	LCS	4/27/2011	Conventional	Cyanide	Total	=	0.0545	mg/L	EPA 335.4	0.0027	0.005			
2010/11-5	Lab	LCS, rec	4/27/2011	Conventional	Cyanide	Total	=	109	%	EPA 335.4	-88	-88	90	110	
2010/11-5	Lab	method blank	4/27/2011	Conventional	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005			
2010/11-5	Lab	LCS	5/6/2011	Conventional	Cyanide	Total	=	0.0498	mg/L	EPA 335.4	0.0027	0.005			
2010/11-5	Lab	LCS, rec	5/6/2011	Conventional	Cyanide	Total	=	100	%	EPA 335.4	-88	-88	90	110	
2010/11-5	Lab	method blank	5/6/2011	Conventional	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005			
2010/11-5	ME-VR2	matrix spike	4/27/2011	Conventional	Cyanide	Total	=	0.198	mg/L	EPA 335.4	0.0027	0.005			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Conventional	Cyanide	Total	=	0.2	mg/L	EPA 335.4	0.0027	0.005			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Conventional	Cyanide	Total	=	100	%	EPA 335.4	-88	-88	90	110	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Conventional	Cyanide	Total	=	99	%	EPA 335.4	-88	-88	90	110	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Conventional	Cyanide	Total	=	1	%	EPA 335.4	-88	-88	0	20	
2010/11-5	MO-FIL	matrix spike	5/6/2011	Conventional	Cyanide	Total	=	0.192	mg/L	EPA 335.4	0.0027	0.005			
2010/11-5	MO-FIL	matrix spike dup	5/6/2011	Conventional	Cyanide	Total	=	0.186	mg/L	EPA 335.4	0.0027	0.005			
2010/11-5	MO-FIL	matrix spike dup, rec	5/6/2011	Conventional	Cyanide	Total	=	93	%	EPA 335.4	-88	-88	90	110	
2010/11-5	MO-FIL	matrix spike, rec	5/6/2011	Conventional	Cyanide	Total	=	96	%	EPA 335.4	-88	-88	90	110	
2010/11-5	MO-FIL	matrix spike, RPD	5/6/2011	Conventional	Cyanide	Total	=	3	%	EPA 335.4	-88	-88	0	20	
2010/11-5	MO-OJA	matrix spike	4/27/2011	Conventional	Cyanide	Total	=	0.218	mg/L	EPA 335.4	0.0027	0.005			
2010/11-5	MO-OJA	matrix spike dup	4/27/2011	Conventional	Cyanide	Total	=	0.197	mg/L	EPA 335.4	0.0027	0.005			
2010/11-5	MO-OJA	matrix spike dup, rec	4/27/2011	Conventional	Cyanide	Total	=	98	%	EPA 335.4	-88	-88	90	110	
2010/11-5	MO-OJA	matrix spike, rec	4/27/2011	Conventional	Cyanide	Total	=	109	%	EPA 335.4	-88	-88	90	110	
2010/11-5	MO-OJA	matrix spike, RPD	4/27/2011	Conventional	Cyanide	Total	=	10	%	EPA 335.4	-88	-88	0	20	
2010/11-5	MO-SPA	matrix spike	5/6/2011	Conventional	Cyanide	Total	=	0.195	mg/L	EPA 335.4	0.0027	0.005			
2010/11-5	MO-SPA	matrix spike dup	5/6/2011	Conventional	Cyanide	Total	=	0.17	mg/L	EPA 335.4	0.0027	0.005			GB
2010/11-5	MO-SPA	matrix spike dup, rec	5/6/2011	Conventional	Cyanide	Total	=	85	%	EPA 335.4	-88	-88	90	110	GB
2010/11-5	MO-SPA	matrix spike, rec	5/6/2011	Conventional	Cyanide	Total	=	97	%	EPA 335.4	-88	-88	90	110	
2010/11-5	MO-SPA	matrix spike, RPD	5/6/2011	Conventional	Cyanide	Total	=	14	%	EPA 335.4	-88	-88	0	20	
2010/11-5	Lab	LCS	4/20/2011	Conventional	MBAS	n/a	=	0.197	mg/L	SM 5540 C	0.019	0.05			
2010/11-5	Lab	LCS, rec	4/20/2011	Conventional	MBAS	n/a	=	99	%	SM 5540 C	-88	-88	79	113	
2010/11-5	Lab	method blank	4/20/2011	Conventional	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05			
2010/11-5	Lab	LCS	4/29/2011	Conventional	MBAS	n/a	=	0.172	mg/L	SM 5540 C	0.019	0.05			
2010/11-5	Lab	LCS, rec	4/29/2011	Conventional	MBAS	n/a	=	86	%	SM 5540 C	-88	-88	79	113	
2010/11-5	Lab	method blank	4/29/2011	Conventional	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05			
2010/11-5	ME-VR2	matrix spike	4/20/2011	Conventional	MBAS	n/a	=	0.228	mg/L	SM 5540 C	0.019	0.05			
2010/11-5	ME-VR2	matrix spike dup	4/20/2011	Conventional	MBAS	n/a	=	0.23	mg/L	SM 5540 C	0.019	0.05			
2010/11-5	ME-VR2	matrix spike dup, rec	4/20/2011	Conventional	MBAS	n/a	=	115	%	SM 5540 C	-88	-88	77	118	
2010/11-5	ME-VR2	matrix spike, rec	4/20/2011	Conventional	MBAS	n/a	=	114	%	SM 5540 C	-88	-88	77	118	
2010/11-5	ME-VR2	matrix spike, RPD	4/20/2011	Conventional	MBAS	n/a	=	0.7	%	SM 5540 C	-88	-88	0	20	
2010/11-5	MO-SIM	matrix spike	4/29/2011	Conventional	MBAS	n/a	=	0.218	mg/L	SM 5540 C	0.019	0.05			
2010/11-5	MO-SIM	matrix spike dup	4/29/2011	Conventional	MBAS	n/a	=	0.213	mg/L	SM 5540 C	0.019	0.05			
2010/11-5	MO-SIM	matrix spike dup, rec	4/29/2011	Conventional	MBAS	n/a	=	106	%	SM 5540 C	-88	-88	77	118	
2010/11-5	MO-SIM	matrix spike, rec	4/29/2011	Conventional	MBAS	n/a	=	109	%	SM 5540 C	-88	-88	77	118	
2010/11-5	MO-SIM	matrix spike, RPD	4/29/2011	Conventional	MBAS	n/a	=	2	%	SM 5540 C	-88	-88	0	20	
2010/11-5	Lab	LCS	5/2/2011	Conventional	Phenolics	n/a	=	0.0983	mg/L	EPA 420.4	0.0042	0.01			
2010/11-5	Lab	LCS, rec	5/2/2011	Conventional	Phenolics	n/a	=	98	%	EPA 420.4	-88	-88	90	110	
2010/11-5	Lab	method blank	5/2/2011	Conventional	Phenolics	n/a	<	0.0042	mg/L	EPA 420.4	0.0042	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS	5/9/2011	Conventional	Phenolics	n/a	=	0.1	mg/L	EPA 420.4	0.0042	0.01			
2010/11-5	Lab	LCS, rec	5/9/2011	Conventional	Phenolics	n/a	=	100	%	EPA 420.4	-88	-88	90	110	
2010/11-5	Lab	method blank	5/9/2011	Conventional	Phenolics	n/a	<	0.0042	mg/L	EPA 420.4	0.0042	0.01			
2010/11-5	ME-VR2	matrix spike	5/2/2011	Conventional	Phenolics	n/a	=	0.235	mg/L	EPA 420.4	0.0042	0.01			
2010/11-5	ME-VR2	matrix spike dup	5/2/2011	Conventional	Phenolics	n/a	=	0.237	mg/L	EPA 420.4	0.0042	0.01			
2010/11-5	ME-VR2	matrix spike dup, rec	5/2/2011	Conventional	Phenolics	n/a	=	98	%	EPA 420.4	-88	-88	90	110	
2010/11-5	ME-VR2	matrix spike, rec	5/2/2011	Conventional	Phenolics	n/a	=	97	%	EPA 420.4	-88	-88	90	110	
2010/11-5	ME-VR2	matrix spike, RPD	5/2/2011	Conventional	Phenolics	n/a	=	0.9	%	EPA 420.4	-88	-88	0	20	
2010/11-5	MO-FIL	matrix spike	5/9/2011	Conventional	Phenolics	n/a	=	0.24	mg/L	EPA 420.4	0.0042	0.01			
2010/11-5	MO-FIL	matrix spike dup	5/9/2011	Conventional	Phenolics	n/a	=	0.235	mg/L	EPA 420.4	0.0042	0.01			
2010/11-5	MO-FIL	matrix spike dup, rec	5/9/2011	Conventional	Phenolics	n/a	=	92	%	EPA 420.4	-88	-88	90	110	
2010/11-5	MO-FIL	matrix spike, rec	5/9/2011	Conventional	Phenolics	n/a	=	94	%	EPA 420.4	-88	-88	90	110	
2010/11-5	MO-FIL	matrix spike, RPD	5/9/2011	Conventional	Phenolics	n/a	=	2	%	EPA 420.4	-88	-88	0	20	
2010/11-5	MO-OJA	matrix spike	5/2/2011	Conventional	Phenolics	n/a	=	0.24	mg/L	EPA 420.4	0.0042	0.01			
2010/11-5	MO-OJA	matrix spike dup	5/2/2011	Conventional	Phenolics	n/a	=	0.242	mg/L	EPA 420.4	0.0042	0.01			
2010/11-5	MO-OJA	matrix spike dup, rec	5/2/2011	Conventional	Phenolics	n/a	=	98	%	EPA 420.4	-88	-88	90	110	
2010/11-5	MO-OJA	matrix spike, rec	5/2/2011	Conventional	Phenolics	n/a	=	97	%	EPA 420.4	-88	-88	90	110	
2010/11-5	MO-OJA	matrix spike, RPD	5/2/2011	Conventional	Phenolics	n/a	=	1	%	EPA 420.4	-88	-88	0	20	
2010/11-5	MO-SIM	matrix spike	5/9/2011	Conventional	Phenolics	n/a	=	0.236	mg/L	EPA 420.4	0.0042	0.01			
2010/11-5	MO-SIM	matrix spike dup	5/9/2011	Conventional	Phenolics	n/a	=	0.235	mg/L	EPA 420.4	0.0042	0.01			
2010/11-5	MO-SIM	matrix spike dup, rec	5/9/2011	Conventional	Phenolics	n/a	=	98	%	EPA 420.4	-88	-88	90	110	
2010/11-5	MO-SIM	matrix spike, rec	5/9/2011	Conventional	Phenolics	n/a	=	98	%	EPA 420.4	-88	-88	90	110	
2010/11-5	MO-SIM	matrix spike, RPD	5/9/2011	Conventional	Phenolics	n/a	=	0.7	%	EPA 420.4	-88	-88	0	20	
2010/11-5	000NONPJ	lab duplicate	4/26/2011	Conventional	Specific Conductance	n/a	=	498	µmhos/cm	SM 2510 B	0.23	2		4.28	
2010/11-5	000NONPJ	lab duplicate	5/4/2011	Conventional	Specific Conductance	n/a	=	532	µmhos/cm	SM 2510 B	0.23	2		4.28	
2010/11-5	Lab	LCS	4/26/2011	Conventional	Specific Conductance	n/a	=	194	µmhos/cm	SM 2510 B	0.23	2			
2010/11-5	Lab	LCS, rec	4/26/2011	Conventional	Specific Conductance	n/a	=	97	%	SM 2510 B	-88	-88	95	105	
2010/11-5	Lab	method blank	4/26/2011	Conventional	Specific Conductance	n/a	DNQ	0.88	µmhos/cm	SM 2510 B	0.23	2			IP
2010/11-5	Lab	LCS	5/4/2011	Conventional	Specific Conductance	n/a	=	194	µmhos/cm	SM 2510 B	0.23	2			
2010/11-5	Lab	LCS, rec	5/4/2011	Conventional	Specific Conductance	n/a	=	97	%	SM 2510 B	-88	-88	95	105	
2010/11-5	Lab	method blank	5/4/2011	Conventional	Specific Conductance	n/a	DNQ	1.22	µmhos/cm	SM 2510 B	0.23	2			IP
2010/11-5	Lab	LCS	4/29/2011	Conventional	Total Chlorine Residual	n/a	=	0.188	mg/L	SM 4500-Cl G	0.0016	0.05			
2010/11-5	Lab	LCS, rec	4/29/2011	Conventional	Total Chlorine Residual	n/a	=	94	%	SM 4500-Cl G	-88	-88	82	112	
2010/11-5	Lab	method blank	4/29/2011	Conventional	Total Chlorine Residual	n/a	<	0.0016	mg/L	SM 4500-Cl G	0.0016	0.05			
2010/11-5	ME-CC	matrix spike	4/29/2011	Conventional	Total Chlorine Residual	n/a	=	0.217	mg/L	SM 4500-Cl G	0.0016	0.05			
2010/11-5	ME-CC	matrix spike dup	4/29/2011	Conventional	Total Chlorine Residual	n/a	=	0.217	mg/L	SM 4500-Cl G	0.0016	0.05			
2010/11-5	ME-CC	matrix spike dup, rec	4/29/2011	Conventional	Total Chlorine Residual	n/a	=	90	%	SM 4500-Cl G	-88	-88	65	128	
2010/11-5	ME-CC	matrix spike, rec	4/29/2011	Conventional	Total Chlorine Residual	n/a	=	90	%	SM 4500-Cl G	-88	-88	65	128	
2010/11-5	ME-CC	matrix spike, RPD	4/29/2011	Conventional	Total Chlorine Residual	n/a	=	0.3	%	SM 4500-Cl G	-88	-88	0	15	
2010/11-5	000NONPJ	lab duplicate	4/25/2011	Conventional	Total Dissolved Solids	n/a	=	430	mg/L	SM 2540 C	4	10		10	
2010/11-5	000NONPJ	lab duplicate	4/25/2011	Conventional	Total Dissolved Solids	n/a	=	1300	mg/L	SM 2540 C	4	10		10	
2010/11-5	000NONPJ	lab duplicate	5/4/2011	Conventional	Total Dissolved Solids	n/a	=	562	mg/L	SM 2540 C	4	10		10	
2010/11-5	000NONPJ	lab duplicate	5/4/2011	Conventional	Total Dissolved Solids	n/a	=	19	mg/L	SM 2540 C	4	10		10	
2010/11-5	Lab	LCS	4/25/2011	Conventional	Total Dissolved Solids	n/a	=	834	mg/L	SM 2540 C	4	10			
2010/11-5	Lab	LCS, rec	4/25/2011	Conventional	Total Dissolved Solids	n/a	=	101	%	SM 2540 C	-88	-88	91	104	
2010/11-5	Lab	method blank	4/25/2011	Conventional	Total Dissolved Solids	n/a	<	4	mg/L	SM 2540 C	4	10			
2010/11-5	Lab	LCS	5/4/2011	Conventional	Total Dissolved Solids	n/a	=	841	mg/L	SM 2540 C	4	10			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/4/2011	Conventional	Total Dissolved Solids	n/a	=	102	%	SM 2540 C	-88	-88	91	104	
2010/11-5	Lab	method blank	5/4/2011	Conventional	Total Dissolved Solids	n/a	<	4	mg/L	SM 2540 C	4	10			
2010/11-5	000NONPJ	matrix spike	4/28/2011	Conventional	Total Organic Carbon	n/a	=	11.8	mg/L	SM 5310 C	0.009	0.3			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Conventional	Total Organic Carbon	n/a	=	11.7	mg/L	SM 5310 C	0.009	0.3			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Conventional	Total Organic Carbon	n/a	=	88	%	SM 5310 C	-88	-88	84	107	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Conventional	Total Organic Carbon	n/a	=	88	%	SM 5310 C	-88	-88	84	107	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Conventional	Total Organic Carbon	n/a	=	0.3	%	SM 5310 C	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike	4/29/2011	Conventional	Total Organic Carbon	n/a	=	7.72	mg/L	SM 5310 C	0.009	0.3			
2010/11-5	000NONPJ	matrix spike dup	4/29/2011	Conventional	Total Organic Carbon	n/a	=	7.89	mg/L	SM 5310 C	0.009	0.3			
2010/11-5	000NONPJ	matrix spike dup, rec	4/29/2011	Conventional	Total Organic Carbon	n/a	=	93	%	SM 5310 C	-88	-88	84	107	
2010/11-5	000NONPJ	matrix spike, rec	4/29/2011	Conventional	Total Organic Carbon	n/a	=	89	%	SM 5310 C	-88	-88	84	107	
2010/11-5	000NONPJ	matrix spike, RPD	4/29/2011	Conventional	Total Organic Carbon	n/a	=	2	%	SM 5310 C	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike	5/6/2011	Conventional	Total Organic Carbon	n/a	=	4.6	mg/L	SM 5310 C	0.009	0.3			
2010/11-5	000NONPJ	matrix spike dup	5/6/2011	Conventional	Total Organic Carbon	n/a	=	4.6	mg/L	SM 5310 C	0.009	0.3			
2010/11-5	000NONPJ	matrix spike dup, rec	5/6/2011	Conventional	Total Organic Carbon	n/a	=	89	%	SM 5310 C	-88	-88	84	107	
2010/11-5	000NONPJ	matrix spike, rec	5/6/2011	Conventional	Total Organic Carbon	n/a	=	89	%	SM 5310 C	-88	-88	84	107	
2010/11-5	000NONPJ	matrix spike, RPD	5/6/2011	Conventional	Total Organic Carbon	n/a	=	0.01	%	SM 5310 C	-88	-88	0	20	
2010/11-5	Lab	LCS	4/28/2011	Conventional	Total Organic Carbon	n/a	=	4.77	mg/L	SM 5310 C	0.009	0.3			
2010/11-5	Lab	LCS, rec	4/28/2011	Conventional	Total Organic Carbon	n/a	=	95	%	SM 5310 C	-88	-88	90	110	
2010/11-5	Lab	method blank	4/28/2011	Conventional	Total Organic Carbon	n/a	DNQ	0.0264	mg/L	SM 5310 C	0.009	0.3			IP
2010/11-5	Lab	LCS	4/29/2011	Conventional	Total Organic Carbon	n/a	=	4.63	mg/L	SM 5310 C	0.009	0.3			
2010/11-5	Lab	LCS, rec	4/29/2011	Conventional	Total Organic Carbon	n/a	=	93	%	SM 5310 C	-88	-88	90	110	
2010/11-5	Lab	method blank	4/29/2011	Conventional	Total Organic Carbon	n/a	DNQ	0.0878	mg/L	SM 5310 C	0.009	0.3			IP
2010/11-5	Lab	LCS	5/6/2011	Conventional	Total Organic Carbon	n/a	=	4.79	mg/L	SM 5310 C	0.009	0.3			
2010/11-5	Lab	LCS, rec	5/6/2011	Conventional	Total Organic Carbon	n/a	=	96	%	SM 5310 C	-88	-88	90	110	
2010/11-5	Lab	method blank	5/6/2011	Conventional	Total Organic Carbon	n/a	DNQ	0.0321	mg/L	SM 5310 C	0.009	0.3			IP
2010/11-5	000NONPJ	lab duplicate	4/21/2011	Conventional	Total Suspended Solids	n/a	=	684	mg/L	SM 2540 D	5	5		20	
2010/11-5	000NONPJ	lab duplicate	5/4/2011	Conventional	Total Suspended Solids	n/a	=	36	mg/L	SM 2540 D	5	5		20	
2010/11-5	Lab	method blank	4/21/2011	Conventional	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5			
2010/11-5	Lab	method blank	5/4/2011	Conventional	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5			
2010/11-5	000NONPJ	lab duplicate	4/20/2011	Conventional	Turbidity	n/a	=	10.1	NTU	EPA 180.1	0.024	0.1		10	
2010/11-5	000NONPJ	lab duplicate	4/29/2011	Conventional	Turbidity	n/a	=	2.3	NTU	EPA 180.1	0.024	0.1		10	
2010/11-5	Lab	LCS	4/20/2011	Conventional	Turbidity	n/a	=	5.23	NTU	EPA 180.1	0.024	0.1			
2010/11-5	Lab	LCS, rec	4/20/2011	Conventional	Turbidity	n/a	=	101	%	EPA 180.1	-88	-88	90	110	
2010/11-5	Lab	method blank	4/20/2011	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1			
2010/11-5	Lab	LCS	4/29/2011	Conventional	Turbidity	n/a	=	5.1	NTU	EPA 180.1	0.024	0.1			
2010/11-5	Lab	LCS, rec	4/29/2011	Conventional	Turbidity	n/a	=	98	%	EPA 180.1	-88	-88	90	110	
2010/11-5	Lab	method blank	4/29/2011	Conventional	Turbidity	n/a	<	0.024	NTU	EPA 180.1	0.024	0.1			
2010/11-5	000NONPJ	lab duplicate	4/21/2011	Conventional	Volatile Suspended Solids	n/a	=	420	mg/L	EPA 160.4	3.1	5		15	
2010/11-5	000NONPJ	lab duplicate	5/4/2011	Conventional	Volatile Suspended Solids	n/a	=	7	mg/L	EPA 160.4	3.1	5		15	
2010/11-5	Lab	method blank	4/21/2011	Conventional	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5			
2010/11-5	Lab	method blank	5/4/2011	Conventional	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5			
2010/11-5	Lab	LCS	4/22/2011	Hydrocarbon	Oil and Grease	n/a	DNQ	4.2	mg/L	EPA 1664A	1.3	5			
2010/11-5	Lab	LCS	4/22/2011	Hydrocarbon	Oil and Grease	n/a	=	18.9	mg/L	EPA 1664A	1.3	5			
2010/11-5	Lab	LCS, rec	4/22/2011	Hydrocarbon	Oil and Grease	n/a	=	94	%	EPA 1664A	-88	-88	78	114	
2010/11-5	Lab	LCS, rec	4/22/2011	Hydrocarbon	Oil and Grease	n/a	=	84	%	EPA 1664A	-88	-88	78	114	
2010/11-5	Lab	method blank	4/22/2011	Hydrocarbon	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS	5/2/2011	Hydrocarbon	Oil and Grease	n/a	=	18.9	mg/L	EPA 1664A	1.3	5			
2010/11-5	Lab	LCS	5/2/2011	Hydrocarbon	Oil and Grease	n/a	DNQ	4.5	mg/L	EPA 1664A	1.3	5			
2010/11-5	Lab	LCS, rec	5/2/2011	Hydrocarbon	Oil and Grease	n/a	=	94	%	EPA 1664A	-88	-88	78	114	
2010/11-5	Lab	LCS, rec	5/2/2011	Hydrocarbon	Oil and Grease	n/a	=	90	%	EPA 1664A	-88	-88	78	114	
2010/11-5	Lab	method blank	5/2/2011	Hydrocarbon	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5			
2010/11-5	ME-SCR	matrix spike	5/2/2011	Hydrocarbon	Oil and Grease	n/a	=	17.4	mg/L	EPA 1664A	1.3	5			
2010/11-5	ME-SCR	matrix spike, rec	5/2/2011	Hydrocarbon	Oil and Grease	n/a	=	87	%	EPA 1664A	-88	-88	78	114	
2010/11-5	ME-VR2	matrix spike	4/22/2011	Hydrocarbon	Oil and Grease	n/a	=	17.4	mg/L	EPA 1664A	1.3	5			
2010/11-5	ME-VR2	matrix spike, rec	4/22/2011	Hydrocarbon	Oil and Grease	n/a	=	87	%	EPA 1664A	-88	-88	78	114	
2010/11-5	Lab	method blank	4/22/2011	Hydrocarbon	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5			
2010/11-5	Lab	method blank	5/2/2011	Hydrocarbon	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5			
2010/11-5	Lab	LCS	4/26/2011	Metal	Aluminum	Dissolved	=	47.8	µg/L	EPA 200.8	0.19	5			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Aluminum	Dissolved	=	96	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Aluminum	Dissolved	DNQ	0.999	µg/L	EPA 200.8	0.19	5			IP
2010/11-5	Lab	LCS	4/29/2011	Metal	Aluminum	Dissolved	=	50.8	µg/L	EPA 200.8	0.19	5			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Aluminum	Dissolved	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Aluminum	Dissolved	DNQ	1.03	µg/L	EPA 200.8	0.19	5			IP
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Aluminum	Dissolved	=	57.7	µg/L	EPA 200.8	0.19	5			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Aluminum	Dissolved	=	61.4	µg/L	EPA 200.8	0.19	5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Aluminum	Dissolved	=	118	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Aluminum	Dissolved	=	111	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Aluminum	Dissolved	=	6	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Aluminum	Dissolved	=	59.9	µg/L	EPA 200.8	0.19	5			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Aluminum	Dissolved	=	63.6	µg/L	EPA 200.8	0.19	5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Aluminum	Dissolved	=	123	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Aluminum	Dissolved	=	116	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Aluminum	Dissolved	=	6	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Aluminum	Total	=	47.8	µg/L	EPA 200.8	0.19	5			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Aluminum	Total	=	96	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Aluminum	Total	DNQ	0.999	µg/L	EPA 200.8	0.19	5			IP
2010/11-5	Lab	LCS	4/29/2011	Metal	Aluminum	Total	=	50.8	µg/L	EPA 200.8	0.19	5			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Aluminum	Total	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Aluminum	Total	DNQ	1.03	µg/L	EPA 200.8	0.19	5			IP
2010/11-5	Lab	LCS	5/9/2011	Metal	Aluminum	Total	=	53	µg/L	EPA 200.8	0.19	5			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Aluminum	Total	=	106	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Aluminum	Total	DNQ	0.97	µg/L	EPA 200.8	0.19	5			IP
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Aluminum	Total	=	2260	µg/L	EPA 200.8	0.19	5			R
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Aluminum	Total	=	2290	µg/L	EPA 200.8	0.19	5			R
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Aluminum	Total	=	-20	%	EPA 200.8	-88	-88	70	130	R
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Aluminum	Total	=	-76	%	EPA 200.8	-88	-88	70	130	R
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Aluminum	Total	=	1	%	EPA 200.8	-88	-88	0	30	R
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Aluminum	Total	=	57.7	µg/L	EPA 200.8	0.19	5			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Aluminum	Total	=	61.4	µg/L	EPA 200.8	0.19	5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Aluminum	Total	=	102	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Aluminum	Total	=	95	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Aluminum	Total	=	6	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Aluminum	Total	=	59.9	µg/L	EPA 200.8	0.19	5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Aluminum	Total	=	63.6	µg/L	EPA 200.8	0.19	5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Aluminum	Total	=	107	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Aluminum	Total	=	99	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Aluminum	Total	=	6	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Aluminum	Total	=	65.6	µg/L	EPA 200.8	0.19	5			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Aluminum	Total	=	67.7	µg/L	EPA 200.8	0.19	5			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Aluminum	Total	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Aluminum	Total	=	94	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Aluminum	Total	=	3	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Antimony	Dissolved	=	50	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Antimony	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Antimony	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	Lab	LCS	4/29/2011	Metal	Antimony	Dissolved	=	51.4	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Antimony	Dissolved	=	103	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Antimony	Dissolved	DNQ	0.0095	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Antimony	Dissolved	=	51	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Antimony	Dissolved	=	51.5	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Antimony	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Antimony	Dissolved	=	102	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Antimony	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Antimony	Dissolved	=	51.7	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Antimony	Dissolved	=	50.8	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Antimony	Dissolved	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Antimony	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Antimony	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Antimony	Total	=	50	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Antimony	Total	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Antimony	Total	<	0.008	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	Lab	LCS	4/29/2011	Metal	Antimony	Total	=	51.4	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Antimony	Total	=	103	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Antimony	Total	DNQ	0.0095	µg/L	EPA 200.8	0.008	0.5			IP
2010/11-5	Lab	LCS	5/9/2011	Metal	Antimony	Total	=	48.4	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Antimony	Total	=	97	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Antimony	Total	<	0.008	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Antimony	Total	=	41.8	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Antimony	Total	=	42.5	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Antimony	Total	=	84	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Antimony	Total	=	83	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Antimony	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Antimony	Total	=	51	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Antimony	Total	=	51.5	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Antimony	Total	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Antimony	Total	=	102	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Antimony	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Antimony	Total	=	51.7	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Antimony	Total	=	50.8	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Antimony	Total	=	101	%	EPA 200.8	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Antimony	Total	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Antimony	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Antimony	Total	=	49.5	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Antimony	Total	=	51.8	µg/L	EPA 200.8	0.008	0.5			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Antimony	Total	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Antimony	Total	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Antimony	Total	=	5	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Arsenic	Dissolved	=	48.3	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Arsenic	Dissolved	=	97	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Arsenic	Dissolved	<	0.014	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	Lab	LCS	4/29/2011	Metal	Arsenic	Dissolved	=	50.5	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Arsenic	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Arsenic	Dissolved	<	0.014	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Arsenic	Dissolved	=	46.4	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Arsenic	Dissolved	=	44.3	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Arsenic	Dissolved	=	88	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Arsenic	Dissolved	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Arsenic	Dissolved	=	5	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Arsenic	Dissolved	=	48.6	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Arsenic	Dissolved	=	48.4	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Arsenic	Dissolved	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Arsenic	Dissolved	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Arsenic	Dissolved	=	0.6	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Arsenic	Total	=	48.3	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Arsenic	Total	=	97	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Arsenic	Total	<	0.014	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	Lab	LCS	4/29/2011	Metal	Arsenic	Total	=	50.5	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Arsenic	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Arsenic	Total	<	0.014	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	Lab	LCS	5/9/2011	Metal	Arsenic	Total	=	50.4	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Arsenic	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Arsenic	Total	<	0.014	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Arsenic	Total	=	51.3	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Arsenic	Total	=	52.4	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Arsenic	Total	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Arsenic	Total	=	99	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Arsenic	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Arsenic	Total	=	46.4	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Arsenic	Total	=	44.3	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Arsenic	Total	=	88	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Arsenic	Total	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Arsenic	Total	=	5	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Arsenic	Total	=	48.6	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Arsenic	Total	=	48.4	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Arsenic	Total	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Arsenic	Total	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Arsenic	Total	=	0.6	%	EPA 200.8	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Arsenic	Total	=	57.8	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Arsenic	Total	=	57.6	µg/L	EPA 200.8	0.014	0.4			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Arsenic	Total	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Arsenic	Total	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Arsenic	Total	=	0.4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	5/9/2011	Metal	Barium	Total	=	50.4	µg/L	EPA 200.8	0.024	0.5			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Barium	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Barium	Total	<	0.024	µg/L	EPA 200.8	0.024	0.5			
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Barium	Total	=	128	µg/L	EPA 200.8	0.024	0.5			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Barium	Total	=	127	µg/L	EPA 200.8	0.024	0.5			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Barium	Total	=	110	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Barium	Total	=	111	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Barium	Total	=	0.5	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Barium	Total	=	242	µg/L	EPA 200.8	0.024	0.5			GB
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Barium	Total	=	253	µg/L	EPA 200.8	0.024	0.5			GB
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Barium	Total	=	155	%	EPA 200.8	-88	-88	70	130	GB
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Barium	Total	=	133	%	EPA 200.8	-88	-88	70	130	GB
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Barium	Total	=	4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Beryllium	Dissolved	=	50.9	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Beryllium	Dissolved	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	Lab	LCS	4/29/2011	Metal	Beryllium	Dissolved	=	51.9	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Beryllium	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Beryllium	Dissolved	=	42.5	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Beryllium	Dissolved	=	41.9	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Beryllium	Dissolved	=	84	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Beryllium	Dissolved	=	85	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Beryllium	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Beryllium	Dissolved	=	48.6	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Beryllium	Dissolved	=	47.9	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Beryllium	Dissolved	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Beryllium	Dissolved	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Beryllium	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Beryllium	Total	=	50.9	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Beryllium	Total	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	Lab	LCS	4/29/2011	Metal	Beryllium	Total	=	51.9	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Beryllium	Total	=	104	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	Lab	LCS	5/10/2011	Metal	Beryllium	Total	=	46	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	Lab	LCS, rec	5/10/2011	Metal	Beryllium	Total	=	92	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/10/2011	Metal	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Beryllium	Total	=	45.6	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Beryllium	Total	=	46.6	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Beryllium	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Beryllium	Total	=	91	%	EPA 200.8	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Beryllium	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Beryllium	Total	=	42.5	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Beryllium	Total	=	41.9	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Beryllium	Total	=	84	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Beryllium	Total	=	85	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Beryllium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Beryllium	Total	=	48.6	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Beryllium	Total	=	47.9	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Beryllium	Total	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Beryllium	Total	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Beryllium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Beryllium	Total	=	46.2	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Beryllium	Total	=	46.7	µg/L	EPA 200.8	0.022	0.1			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Beryllium	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Beryllium	Total	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Beryllium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Cadmium	Dissolved	=	49.7	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Cadmium	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Cadmium	Dissolved	<	0.013	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	Lab	LCS	4/29/2011	Metal	Cadmium	Dissolved	=	52.3	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Cadmium	Dissolved	=	105	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Cadmium	Dissolved	<	0.013	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Cadmium	Dissolved	=	47.4	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Cadmium	Dissolved	=	47.9	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Cadmium	Dissolved	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Cadmium	Dissolved	=	95	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Cadmium	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Cadmium	Dissolved	=	48.8	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Cadmium	Dissolved	=	47.9	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Cadmium	Dissolved	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Cadmium	Dissolved	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Cadmium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Cadmium	Total	=	49.7	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Cadmium	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Cadmium	Total	<	0.013	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	Lab	LCS	4/29/2011	Metal	Cadmium	Total	=	52.3	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Cadmium	Total	=	105	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Cadmium	Total	<	0.013	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	Lab	LCS	5/9/2011	Metal	Cadmium	Total	=	49.8	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Cadmium	Total	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Cadmium	Total	<	0.013	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Cadmium	Total	=	47	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Cadmium	Total	=	47.8	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Cadmium	Total	=	95	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Cadmium	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Cadmium	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Cadmium	Total	=	47.4	µg/L	EPA 200.8	0.013	0.1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Cadmium	Total	=	47.9	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Cadmium	Total	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Cadmium	Total	=	95	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Cadmium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Cadmium	Total	=	48.8	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Cadmium	Total	=	47.9	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Cadmium	Total	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Cadmium	Total	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Cadmium	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Cadmium	Total	=	47.4	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Cadmium	Total	=	48.8	µg/L	EPA 200.8	0.013	0.1			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Cadmium	Total	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Cadmium	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Cadmium	Total	=	3	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Chromium	Dissolved	=	49.3	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Chromium	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Chromium	Dissolved	DNQ	0.0282	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-5	Lab	LCS	4/29/2011	Metal	Chromium	Dissolved	=	50.2	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Chromium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Chromium	Dissolved	DNQ	0.0205	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Chromium	Dissolved	=	51.6	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Chromium	Dissolved	=	51.4	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Chromium	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Chromium	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Chromium	Dissolved	=	0.4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Chromium	Dissolved	=	50.9	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Chromium	Dissolved	=	52	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Chromium	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Chromium	Dissolved	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Chromium	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Chromium	Total	=	49.3	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Chromium	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Chromium	Total	DNQ	0.0282	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-5	Lab	LCS	4/29/2011	Metal	Chromium	Total	=	50.2	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Chromium	Total	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Chromium	Total	DNQ	0.0205	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-5	Lab	LCS	5/9/2011	Metal	Chromium	Total	=	52.3	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Chromium	Total	=	105	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Chromium	Total	DNQ	0.02	µg/L	EPA 200.8	0.012	0.2			IP
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Chromium	Total	=	49.7	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Chromium	Total	=	50.4	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Chromium	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Chromium	Total	=	91	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Chromium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Chromium	Total	=	51.6	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Chromium	Total	=	51.4	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Chromium	Total	=	103	%	EPA 200.8	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Chromium	Total	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Chromium	Total	=	0.4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Chromium	Total	=	50.9	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Chromium	Total	=	52	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Chromium	Total	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Chromium	Total	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Chromium	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Chromium	Total	=	47.2	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Chromium	Total	=	47.6	µg/L	EPA 200.8	0.012	0.2			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Chromium	Total	=	94	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Chromium	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Chromium	Total	=	0.8	%	EPA 200.8	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/7/2011	Metal	Chromium VI	n/a	=	7.52	µg/L	EPA 218.6	0.0059	0.3			
2010/11-5	000NONPJ	matrix spike dup	5/7/2011	Metal	Chromium VI	n/a	=	7.44	µg/L	EPA 218.6	0.0059	0.3			
2010/11-5	000NONPJ	matrix spike dup, rec	5/7/2011	Metal	Chromium VI	n/a	=	100	%	EPA 218.6	-88	-88	88	112	
2010/11-5	000NONPJ	matrix spike, rec	5/7/2011	Metal	Chromium VI	n/a	=	101	%	EPA 218.6	-88	-88	88	112	
2010/11-5	000NONPJ	matrix spike, RPD	5/7/2011	Metal	Chromium VI	n/a	=	1	%	EPA 218.6	-88	-88	0	10	
2010/11-5	Lab	LCS	4/21/2011	Metal	Chromium VI	n/a	=	4.96	µg/L	EPA 218.6	0.0059	0.3			
2010/11-5	Lab	LCS, rec	4/21/2011	Metal	Chromium VI	n/a	=	99	%	EPA 218.6	-88	-88	90	110	
2010/11-5	Lab	method blank	4/21/2011	Metal	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3			
2010/11-5	Lab	LCS	5/7/2011	Metal	Chromium VI	n/a	=	5.15	µg/L	EPA 218.6	0.0059	0.3			
2010/11-5	Lab	LCS, rec	5/7/2011	Metal	Chromium VI	n/a	=	103	%	EPA 218.6	-88	-88	90	110	
2010/11-5	Lab	method blank	5/7/2011	Metal	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3			
2010/11-5	ME-VR2	matrix spike	4/21/2011	Metal	Chromium VI	n/a	=	5.28	µg/L	EPA 218.6	0.0059	0.3			
2010/11-5	ME-VR2	matrix spike dup	4/21/2011	Metal	Chromium VI	n/a	=	5.13	µg/L	EPA 218.6	0.0059	0.3			
2010/11-5	ME-VR2	matrix spike dup, rec	4/21/2011	Metal	Chromium VI	n/a	=	101	%	EPA 218.6	-88	-88	88	112	
2010/11-5	ME-VR2	matrix spike, rec	4/21/2011	Metal	Chromium VI	n/a	=	104	%	EPA 218.6	-88	-88	88	112	
2010/11-5	ME-VR2	matrix spike, RPD	4/21/2011	Metal	Chromium VI	n/a	=	3	%	EPA 218.6	-88	-88	0	10	
2010/11-5	Lab	LCS	4/26/2011	Metal	Copper	Dissolved	=	50.4	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Copper	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Copper	Dissolved	DNQ	0.0304	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-5	Lab	LCS	4/29/2011	Metal	Copper	Dissolved	=	51.9	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Copper	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Copper	Dissolved	DNQ	0.0334	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Copper	Dissolved	=	50.2	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Copper	Dissolved	=	49.7	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Copper	Dissolved	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Copper	Dissolved	=	99	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Copper	Dissolved	=	0.9	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Copper	Dissolved	=	50.1	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Copper	Dissolved	=	51.4	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Copper	Dissolved	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Copper	Dissolved	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Copper	Dissolved	=	3	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Copper	Total	=	50.4	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Copper	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Copper	Total	DNQ	0.0304	µg/L	EPA 200.8	0.022	0.5			IP

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS	4/29/2011	Metal	Copper	Total	=	51.9	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Copper	Total	=	104	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Copper	Total	DNQ	0.0334	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-5	Lab	LCS	5/9/2011	Metal	Copper	Total	=	55.4	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Copper	Total	=	111	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Copper	Total	DNQ	0.1	µg/L	EPA 200.8	0.022	0.5			IP
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Copper	Total	=	48.4	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Copper	Total	=	48.8	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Copper	Total	=	84	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Copper	Total	=	83	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Copper	Total	=	0.8	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Copper	Total	=	50.2	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Copper	Total	=	49.7	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Copper	Total	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Copper	Total	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Copper	Total	=	0.9	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Copper	Total	=	50.1	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Copper	Total	=	51.4	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Copper	Total	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Copper	Total	=	98	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Copper	Total	=	3	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Copper	Total	=	56.7	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Copper	Total	=	57.2	µg/L	EPA 200.8	0.022	0.5			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Copper	Total	=	88	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Copper	Total	=	87	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Copper	Total	=	0.8	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Iron	Dissolved	=	1100	µg/L	EPA 200.8	0.6	20			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Iron	Dissolved	=	104	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Iron	Dissolved	DNQ	1.77	µg/L	EPA 200.8	0.6	20			IP
2010/11-5	Lab	LCS	4/29/2011	Metal	Iron	Dissolved	=	1160	µg/L	EPA 200.8	0.6	20			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Iron	Dissolved	=	110	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Iron	Dissolved	DNQ	0.647	µg/L	EPA 200.8	0.6	20			IP
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Iron	Dissolved	=	1230	µg/L	EPA 200.8	0.6	20			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Iron	Dissolved	=	1260	µg/L	EPA 200.8	0.6	20			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Iron	Dissolved	=	118	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Iron	Dissolved	=	115	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Iron	Dissolved	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Iron	Dissolved	=	1240	µg/L	EPA 200.8	0.6	20			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Iron	Dissolved	=	1290	µg/L	EPA 200.8	0.6	20			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Iron	Dissolved	=	121	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Iron	Dissolved	=	116	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Iron	Dissolved	=	4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Iron	Total	=	1100	µg/L	EPA 200.8	0.6	20			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Iron	Total	=	104	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Iron	Total	DNQ	1.77	µg/L	EPA 200.8	0.6	20			IP
2010/11-5	Lab	LCS	4/29/2011	Metal	Iron	Total	=	1160	µg/L	EPA 200.8	0.6	20			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Iron	Total	=	110	%	EPA 200.8	-88	-88	85	115	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	method blank	4/29/2011	Metal	Iron	Total	DNQ	0.647	µg/L	EPA 200.8	0.6	20			IP
2010/11-5	Lab	LCS	5/9/2011	Metal	Iron	Total	=	1040	µg/L	EPA 200.8	0.6	20			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Iron	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Iron	Total	<	0.6	µg/L	EPA 200.8	0.6	20			
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Iron	Total	=	4780	µg/L	EPA 200.8	0.6	20			GB
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Iron	Total	=	4800	µg/L	EPA 200.8	0.6	20			GB
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Iron	Total	=	53	%	EPA 200.8	-88	-88	70	130	GB
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Iron	Total	=	51	%	EPA 200.8	-88	-88	70	130	GB
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Iron	Total	=	0.5	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Iron	Total	=	1230	µg/L	EPA 200.8	0.6	20			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Iron	Total	=	1260	µg/L	EPA 200.8	0.6	20			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Iron	Total	=	116	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Iron	Total	=	113	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Iron	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Iron	Total	=	1240	µg/L	EPA 200.8	0.6	20			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Iron	Total	=	1290	µg/L	EPA 200.8	0.6	20			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Iron	Total	=	118	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Iron	Total	=	114	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Iron	Total	=	4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Iron	Total	=	915	µg/L	EPA 200.8	0.6	20			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Iron	Total	=	915	µg/L	EPA 200.8	0.6	20			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Iron	Total	=	86	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Iron	Total	=	85	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Iron	Total	=	0.09	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Lead	Dissolved	=	47.8	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Lead	Dissolved	=	96	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	Lab	LCS	4/29/2011	Metal	Lead	Dissolved	=	50.4	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Lead	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Lead	Dissolved	=	50.1	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Lead	Dissolved	=	50.1	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Lead	Dissolved	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Lead	Dissolved	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Lead	Dissolved	=	0.06	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Lead	Dissolved	=	52.4	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Lead	Dissolved	=	51.8	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Lead	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Lead	Dissolved	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Lead	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Lead	Total	=	47.8	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Lead	Total	=	96	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Lead	Total	<	0.017	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	Lab	LCS	4/29/2011	Metal	Lead	Total	=	50.4	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Lead	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Lead	Total	<	0.017	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	Lab	LCS	5/9/2011	Metal	Lead	Total	=	48.7	µg/L	EPA 200.8	0.017	0.2			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Lead	Total	=	97	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Lead	Total	DNQ	0.03	µg/L	EPA 200.8	0.017	0.2			IP
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Lead	Total	=	50.5	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Lead	Total	=	51.3	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Lead	Total	=	99	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Lead	Total	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Lead	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Lead	Total	=	50.1	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Lead	Total	=	50.1	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Lead	Total	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Lead	Total	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Lead	Total	=	0.06	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Lead	Total	=	52.4	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Lead	Total	=	51.8	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Lead	Total	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Lead	Total	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Lead	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Lead	Total	=	48.7	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Lead	Total	=	50.2	µg/L	EPA 200.8	0.017	0.2			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Lead	Total	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Lead	Total	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Lead	Total	=	3	%	EPA 200.8	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	4/25/2011	Metal	Mercury	Dissolved	=	1030	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike	4/25/2011	Metal	Mercury	Dissolved	=	995	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup	4/25/2011	Metal	Mercury	Dissolved	=	1030	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup	4/25/2011	Metal	Mercury	Dissolved	=	1010	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup, rec	4/25/2011	Metal	Mercury	Dissolved	=	100	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike dup, rec	4/25/2011	Metal	Mercury	Dissolved	=	98	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/25/2011	Metal	Mercury	Dissolved	=	96	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/25/2011	Metal	Mercury	Dissolved	=	100	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/25/2011	Metal	Mercury	Dissolved	=	1	%	EPA 245.1	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike, RPD	4/25/2011	Metal	Mercury	Dissolved	=	0	%	EPA 245.1	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike	5/11/2011	Metal	Mercury	Dissolved	=	1020	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike	5/11/2011	Metal	Mercury	Dissolved	=	1050	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup	5/11/2011	Metal	Mercury	Dissolved	=	974	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup	5/11/2011	Metal	Mercury	Dissolved	=	1030	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup, rec	5/11/2011	Metal	Mercury	Dissolved	=	97	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike dup, rec	5/11/2011	Metal	Mercury	Dissolved	=	103	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/11/2011	Metal	Mercury	Dissolved	=	102	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/11/2011	Metal	Mercury	Dissolved	=	105	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/11/2011	Metal	Mercury	Dissolved	=	8	%	EPA 245.1	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike, RPD	5/11/2011	Metal	Mercury	Dissolved	=	1	%	EPA 245.1	-88	-88	0	20	
2010/11-5	Lab	LCS	4/25/2011	Metal	Mercury	Dissolved	=	1020	ng/L	EPA 245.1	3.9	50			
2010/11-5	Lab	LCS, rec	4/25/2011	Metal	Mercury	Dissolved	=	102	%	EPA 245.1	-88	-88	85	115	
2010/11-5	Lab	method blank	4/25/2011	Metal	Mercury	Dissolved	DNQ	33	ng/L	EPA 245.1	3.9	50			IP
2010/11-5	Lab	LCS	5/6/2011	Metal	Mercury	Dissolved	=	1070	ng/L	EPA 245.1	3.9	50			
2010/11-5	Lab	LCS, rec	5/6/2011	Metal	Mercury	Dissolved	=	107	%	EPA 245.1	-88	-88	85	115	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	method blank	5/6/2011	Metal	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50			
2010/11-5	Lab	LCS	5/11/2011	Metal	Mercury	Dissolved	=	1020	ng/L	EPA 245.1	3.9	50			
2010/11-5	Lab	LCS, rec	5/11/2011	Metal	Mercury	Dissolved	=	102	%	EPA 245.1	-88	-88	85	115	
2010/11-5	Lab	method blank	5/11/2011	Metal	Mercury	Dissolved	DNQ	19	ng/L	EPA 245.1	3.9	50			IP
2010/11-5	MO-CAM	matrix spike	5/6/2011	Metal	Mercury	Dissolved	=	1030	ng/L	EPA 245.1	3.9	50			
2010/11-5	MO-CAM	matrix spike dup	5/6/2011	Metal	Mercury	Dissolved	=	1090	ng/L	EPA 245.1	3.9	50			
2010/11-5	MO-CAM	matrix spike dup, rec	5/6/2011	Metal	Mercury	Dissolved	=	109	%	EPA 245.1	-88	-88	70	130	
2010/11-5	MO-CAM	matrix spike, rec	5/6/2011	Metal	Mercury	Dissolved	=	103	%	EPA 245.1	-88	-88	70	130	
2010/11-5	MO-CAM	matrix spike, RPD	5/6/2011	Metal	Mercury	Dissolved	=	6	%	EPA 245.1	-88	-88	0	20	
2010/11-5	MO-SPA	matrix spike	5/6/2011	Metal	Mercury	Dissolved	=	1200	ng/L	EPA 245.1	3.9	50			
2010/11-5	MO-SPA	matrix spike dup	5/6/2011	Metal	Mercury	Dissolved	=	1210	ng/L	EPA 245.1	3.9	50			
2010/11-5	MO-SPA	matrix spike dup, rec	5/6/2011	Metal	Mercury	Dissolved	=	121	%	EPA 245.1	-88	-88	70	130	
2010/11-5	MO-SPA	matrix spike, rec	5/6/2011	Metal	Mercury	Dissolved	=	120	%	EPA 245.1	-88	-88	70	130	
2010/11-5	MO-SPA	matrix spike, RPD	5/6/2011	Metal	Mercury	Dissolved	=	0.8	%	EPA 245.1	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike	4/25/2011	Metal	Mercury	Total	=	995	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike	4/25/2011	Metal	Mercury	Total	=	1030	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup	4/25/2011	Metal	Mercury	Total	=	1010	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup	4/25/2011	Metal	Mercury	Total	=	1030	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup, rec	4/25/2011	Metal	Mercury	Total	=	98	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike dup, rec	4/25/2011	Metal	Mercury	Total	=	100	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/25/2011	Metal	Mercury	Total	=	96	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/25/2011	Metal	Mercury	Total	=	100	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/25/2011	Metal	Mercury	Total	=	1	%	EPA 245.1	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike, RPD	4/25/2011	Metal	Mercury	Total	=	0	%	EPA 245.1	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike	5/11/2011	Metal	Mercury	Total	=	1050	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike	5/11/2011	Metal	Mercury	Total	=	1020	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup	5/11/2011	Metal	Mercury	Total	=	974	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup	5/11/2011	Metal	Mercury	Total	=	1030	ng/L	EPA 245.1	3.9	50			
2010/11-5	000NONPJ	matrix spike dup, rec	5/11/2011	Metal	Mercury	Total	=	101	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike dup, rec	5/11/2011	Metal	Mercury	Total	=	96	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/11/2011	Metal	Mercury	Total	=	100	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/11/2011	Metal	Mercury	Total	=	103	%	EPA 245.1	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/11/2011	Metal	Mercury	Total	=	1	%	EPA 245.1	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike, RPD	5/11/2011	Metal	Mercury	Total	=	8	%	EPA 245.1	-88	-88	0	20	
2010/11-5	Lab	LCS	4/25/2011	Metal	Mercury	Total	=	1020	ng/L	EPA 245.1	3.9	50			
2010/11-5	Lab	LCS, rec	4/25/2011	Metal	Mercury	Total	=	102	%	EPA 245.1	-88	-88	85	115	
2010/11-5	Lab	method blank	4/25/2011	Metal	Mercury	Total	DNQ	33	ng/L	EPA 245.1	3.9	50			IP
2010/11-5	Lab	LCS	5/6/2011	Metal	Mercury	Total	=	1070	ng/L	EPA 245.1	3.9	50			
2010/11-5	Lab	LCS, rec	5/6/2011	Metal	Mercury	Total	=	107	%	EPA 245.1	-88	-88	85	115	
2010/11-5	Lab	method blank	5/6/2011	Metal	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50			
2010/11-5	Lab	LCS	5/11/2011	Metal	Mercury	Total	=	1020	ng/L	EPA 245.1	3.9	50			
2010/11-5	Lab	LCS, rec	5/11/2011	Metal	Mercury	Total	=	102	%	EPA 245.1	-88	-88	85	115	
2010/11-5	Lab	method blank	5/11/2011	Metal	Mercury	Total	DNQ	19	ng/L	EPA 245.1	3.9	50			IP
2010/11-5	MO-CAM	matrix spike	5/6/2011	Metal	Mercury	Total	=	1030	ng/L	EPA 245.1	3.9	50			
2010/11-5	MO-CAM	matrix spike dup	5/6/2011	Metal	Mercury	Total	=	1090	ng/L	EPA 245.1	3.9	50			
2010/11-5	MO-CAM	matrix spike dup, rec	5/6/2011	Metal	Mercury	Total	=	108	%	EPA 245.1	-88	-88	70	130	
2010/11-5	MO-CAM	matrix spike, rec	5/6/2011	Metal	Mercury	Total	=	102	%	EPA 245.1	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-CAM	matrix spike, RPD	5/6/2011	Metal	Mercury	Total	=	6	%	EPA 245.1	-88	-88	0	20	
2010/11-5	MO-SPA	matrix spike	5/6/2011	Metal	Mercury	Total	=	1200	ng/L	EPA 245.1	3.9	50			
2010/11-5	MO-SPA	matrix spike dup	5/6/2011	Metal	Mercury	Total	=	1210	ng/L	EPA 245.1	3.9	50			
2010/11-5	MO-SPA	matrix spike dup, rec	5/6/2011	Metal	Mercury	Total	=	121	%	EPA 245.1	-88	-88	70	130	
2010/11-5	MO-SPA	matrix spike, rec	5/6/2011	Metal	Mercury	Total	=	120	%	EPA 245.1	-88	-88	70	130	
2010/11-5	MO-SPA	matrix spike, RPD	5/6/2011	Metal	Mercury	Total	=	0.8	%	EPA 245.1	-88	-88	0	20	
2010/11-5	Lab	LCS	4/26/2011	Metal	Nickel	Dissolved	=	49.4	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Nickel	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Nickel	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	Lab	LCS	4/29/2011	Metal	Nickel	Dissolved	=	51	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Nickel	Dissolved	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Nickel	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Nickel	Dissolved	=	52.5	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Nickel	Dissolved	=	54.5	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Nickel	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Nickel	Dissolved	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Nickel	Dissolved	=	4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Nickel	Dissolved	=	54.8	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Nickel	Dissolved	=	54.3	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Nickel	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Nickel	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Nickel	Dissolved	=	0.9	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Nickel	Total	=	49.4	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Nickel	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Nickel	Total	<	0.011	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	Lab	LCS	4/29/2011	Metal	Nickel	Total	=	51	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Nickel	Total	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Nickel	Total	<	0.011	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	Lab	LCS	5/9/2011	Metal	Nickel	Total	=	54.2	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Nickel	Total	=	108	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Nickel	Total	DNQ	0.02	µg/L	EPA 200.8	0.011	0.8			IP
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Nickel	Total	=	49.4	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Nickel	Total	=	50.1	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Nickel	Total	=	89	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Nickel	Total	=	87	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Nickel	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Nickel	Total	=	52.5	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Nickel	Total	=	54.5	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Nickel	Total	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Nickel	Total	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Nickel	Total	=	4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Nickel	Total	=	54.8	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Nickel	Total	=	54.3	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Nickel	Total	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Nickel	Total	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Nickel	Total	=	0.9	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Nickel	Total	=	52.2	µg/L	EPA 200.8	0.011	0.8			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Nickel	Total	=	52.4	µg/L	EPA 200.8	0.011	0.8			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Nickel	Total	=	89	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Nickel	Total	=	88	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Nickel	Total	=	0.4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Selenium	Dissolved	=	48.3	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Selenium	Dissolved	=	97	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Selenium	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	Lab	LCS	4/29/2011	Metal	Selenium	Dissolved	=	53	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Selenium	Dissolved	=	106	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Selenium	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Selenium	Dissolved	=	54	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Selenium	Dissolved	=	54.5	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Selenium	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Selenium	Dissolved	=	103	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Selenium	Dissolved	=	0.8	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Selenium	Dissolved	=	54.3	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Selenium	Dissolved	=	55	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Selenium	Dissolved	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Selenium	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Selenium	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Selenium	Total	=	48.3	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Selenium	Total	=	97	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Selenium	Total	<	0.017	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	Lab	LCS	4/29/2011	Metal	Selenium	Total	=	53	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Selenium	Total	=	106	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Selenium	Total	<	0.017	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	Lab	LCS	5/9/2011	Metal	Selenium	Total	=	49.1	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Selenium	Total	=	98	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Selenium	Total	<	0.017	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Selenium	Total	=	53.3	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Selenium	Total	=	53.8	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Selenium	Total	=	102	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Selenium	Total	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Selenium	Total	=	0.8	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Selenium	Total	=	54	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Selenium	Total	=	54.5	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Selenium	Total	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Selenium	Total	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Selenium	Total	=	0.8	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Selenium	Total	=	54.3	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Selenium	Total	=	55	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Selenium	Total	=	106	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Selenium	Total	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Selenium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Selenium	Total	=	53.4	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Selenium	Total	=	53.6	µg/L	EPA 200.8	0.017	0.4			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Selenium	Total	=	106	%	EPA 200.8	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Selenium	Total	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Selenium	Total	=	0.4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Silver	Dissolved	=	49.3	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Silver	Dissolved	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Silver	Dissolved	DNQ	0.143	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-5	Lab	LCS	4/29/2011	Metal	Silver	Dissolved	=	51.1	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Silver	Dissolved	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Silver	Dissolved	DNQ	0.159	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Silver	Dissolved	=	48.1	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Silver	Dissolved	=	48.3	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Silver	Dissolved	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Silver	Dissolved	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Silver	Dissolved	=	0.4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Silver	Dissolved	=	49.8	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Silver	Dissolved	=	49.6	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Silver	Dissolved	=	99	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Silver	Dissolved	=	99	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Silver	Dissolved	=	0.4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Silver	Total	=	49.3	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Silver	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Silver	Total	DNQ	0.143	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-5	Lab	LCS	4/29/2011	Metal	Silver	Total	=	51.1	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Silver	Total	=	102	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Silver	Total	DNQ	0.159	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-5	Lab	LCS	5/9/2011	Metal	Silver	Total	=	49.2	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Silver	Total	=	98	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Silver	Total	DNQ	0.01	µg/L	EPA 200.8	0.008	0.2			IP
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Silver	Total	=	45.3	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Silver	Total	=	46.1	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Silver	Total	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Silver	Total	=	91	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Silver	Total	=	2	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Silver	Total	=	48.1	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Silver	Total	=	48.3	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Silver	Total	=	97	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Silver	Total	=	96	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Silver	Total	=	0.4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Silver	Total	=	49.8	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Silver	Total	=	49.6	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Silver	Total	=	99	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Silver	Total	=	100	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Silver	Total	=	0.4	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Silver	Total	=	44.8	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Silver	Total	=	46.3	µg/L	EPA 200.8	0.008	0.2			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Silver	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Silver	Total	=	90	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Silver	Total	=	3	%	EPA 200.8	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS	4/26/2011	Metal	Thallium	Dissolved	=	49.9	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Thallium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	Lab	LCS	4/29/2011	Metal	Thallium	Dissolved	=	50	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Thallium	Dissolved	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Thallium	Dissolved	=	52.1	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Thallium	Dissolved	=	52.5	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Thallium	Dissolved	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Thallium	Dissolved	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Thallium	Dissolved	=	0.7	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Thallium	Dissolved	=	53	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Thallium	Dissolved	=	52.4	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Thallium	Dissolved	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Thallium	Dissolved	=	106	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Thallium	Dissolved	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Thallium	Total	=	49.9	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Thallium	Total	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	Lab	LCS	4/29/2011	Metal	Thallium	Total	=	50	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Thallium	Total	=	100	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	Lab	LCS	5/9/2011	Metal	Thallium	Total	=	49.4	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Thallium	Total	=	99	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Thallium	Total	=	50.5	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Thallium	Total	=	51.2	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Thallium	Total	=	102	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Thallium	Total	=	101	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Thallium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Thallium	Total	=	52.1	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Thallium	Total	=	52.5	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Thallium	Total	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Thallium	Total	=	104	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Thallium	Total	=	0.7	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Thallium	Total	=	53	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Thallium	Total	=	52.4	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Thallium	Total	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Thallium	Total	=	106	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Thallium	Total	=	1	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Thallium	Total	=	52.4	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Thallium	Total	=	54.1	µg/L	EPA 200.8	0.02	0.2			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Thallium	Total	=	108	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Thallium	Total	=	105	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Thallium	Total	=	3	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Zinc	Dissolved	=	50.7	µg/L	EPA 200.8	0.3	5			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Zinc	Dissolved	=	101	%	EPA 200.8	-88	-88	85	115	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	method blank	4/26/2011	Metal	Zinc	Dissolved	DNQ	0.577	µg/L	EPA 200.8	0.3	5			IP
2010/11-5	Lab	LCS	4/29/2011	Metal	Zinc	Dissolved	=	52.9	µg/L	EPA 200.8	0.3	5			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Zinc	Dissolved	=	106	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Zinc	Dissolved	DNQ	0.515	µg/L	EPA 200.8	0.3	5			IP
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Zinc	Dissolved	=	47.3	µg/L	EPA 200.8	0.3	5			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Zinc	Dissolved	=	47.3	µg/L	EPA 200.8	0.3	5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Zinc	Dissolved	=	91	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Zinc	Dissolved	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Zinc	Dissolved	=	0.07	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Zinc	Dissolved	=	47.5	µg/L	EPA 200.8	0.3	5			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Zinc	Dissolved	=	47.4	µg/L	EPA 200.8	0.3	5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Zinc	Dissolved	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Zinc	Dissolved	=	92	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Zinc	Dissolved	=	0.3	%	EPA 200.8	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Metal	Zinc	Total	=	50.7	µg/L	EPA 200.8	0.3	5			
2010/11-5	Lab	LCS, rec	4/26/2011	Metal	Zinc	Total	=	101	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/26/2011	Metal	Zinc	Total	DNQ	0.577	µg/L	EPA 200.8	0.3	5			IP
2010/11-5	Lab	LCS	4/29/2011	Metal	Zinc	Total	=	52.9	µg/L	EPA 200.8	0.3	5			
2010/11-5	Lab	LCS, rec	4/29/2011	Metal	Zinc	Total	=	106	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	4/29/2011	Metal	Zinc	Total	DNQ	0.515	µg/L	EPA 200.8	0.3	5			IP
2010/11-5	Lab	LCS	5/9/2011	Metal	Zinc	Total	=	51.6	µg/L	EPA 200.8	0.3	5			
2010/11-5	Lab	LCS, rec	5/9/2011	Metal	Zinc	Total	=	103	%	EPA 200.8	-88	-88	85	115	
2010/11-5	Lab	method blank	5/9/2011	Metal	Zinc	Total	<	0.3	µg/L	EPA 200.8	0.3	5			
2010/11-5	ME-SCR	matrix spike	5/10/2011	Metal	Zinc	Total	=	56.5	µg/L	EPA 200.8	0.3	5			
2010/11-5	ME-SCR	matrix spike dup	5/10/2011	Metal	Zinc	Total	=	57	µg/L	EPA 200.8	0.3	5			
2010/11-5	ME-SCR	matrix spike dup, rec	5/10/2011	Metal	Zinc	Total	=	83	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, rec	5/10/2011	Metal	Zinc	Total	=	82	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-SCR	matrix spike, RPD	5/10/2011	Metal	Zinc	Total	=	0.8	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/27/2011	Metal	Zinc	Total	=	47.3	µg/L	EPA 200.8	0.3	5			
2010/11-5	ME-VR2	matrix spike dup	4/27/2011	Metal	Zinc	Total	=	47.3	µg/L	EPA 200.8	0.3	5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/27/2011	Metal	Zinc	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/27/2011	Metal	Zinc	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/27/2011	Metal	Zinc	Total	=	0.07	%	EPA 200.8	-88	-88	0	30	
2010/11-5	ME-VR2	matrix spike	4/29/2011	Metal	Zinc	Total	=	47.5	µg/L	EPA 200.8	0.3	5			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Metal	Zinc	Total	=	47.4	µg/L	EPA 200.8	0.3	5			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Metal	Zinc	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Metal	Zinc	Total	=	93	%	EPA 200.8	-88	-88	70	130	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Metal	Zinc	Total	=	0.3	%	EPA 200.8	-88	-88	0	30	
2010/11-5	MO-MPK	matrix spike	5/10/2011	Metal	Zinc	Total	=	50.7	µg/L	EPA 200.8	0.3	5			
2010/11-5	MO-MPK	matrix spike dup	5/10/2011	Metal	Zinc	Total	=	51.1	µg/L	EPA 200.8	0.3	5			
2010/11-5	MO-MPK	matrix spike dup, rec	5/10/2011	Metal	Zinc	Total	=	89	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, rec	5/10/2011	Metal	Zinc	Total	=	88	%	EPA 200.8	-88	-88	70	130	
2010/11-5	MO-MPK	matrix spike, RPD	5/10/2011	Metal	Zinc	Total	=	0.9	%	EPA 200.8	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	4/28/2011	Nutrient	Ammonia as N	n/a	=	0.989	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	000NONPJ	matrix spike	4/28/2011	Nutrient	Ammonia as N	n/a	=	0.9	mg/L	EPA 350.1	0.048	0.1			GB
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Nutrient	Ammonia as N	n/a	=	1.09	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Nutrient	Ammonia as N	n/a	=	1.05	mg/L	EPA 350.1	0.048	0.1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Nutrient	Ammonia as N	n/a	=	99	%	EPA 350.1	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Nutrient	Ammonia as N	n/a	=	109	%	EPA 350.1	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Nutrient	Ammonia as N	n/a	=	84	%	EPA 350.1	-88	-88	90	110	GB
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Nutrient	Ammonia as N	n/a	=	99	%	EPA 350.1	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Nutrient	Ammonia as N	n/a	=	15	%	EPA 350.1	-88	-88	0	10	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Nutrient	Ammonia as N	n/a	=	10	%	EPA 350.1	-88	-88	0	10	
2010/11-5	000NONPJ	matrix spike	5/2/2011	Nutrient	Ammonia as N	n/a	=	2.62	mg/L	EPA 350.1	0.096	0.2			D,GB
2010/11-5	000NONPJ	matrix spike	5/2/2011	Nutrient	Ammonia as N	n/a	=	3.75	mg/L	EPA 350.1	0.24	0.5			D,GB
2010/11-5	000NONPJ	matrix spike	5/2/2011	Nutrient	Ammonia as N	n/a	=	3.66	mg/L	EPA 350.1	0.24	0.5			D,GB
2010/11-5	000NONPJ	matrix spike	5/2/2011	Nutrient	Ammonia as N	n/a	=	2.72	mg/L	EPA 350.1	0.096	0.2			D,GB
2010/11-5	000NONPJ	matrix spike dup	5/2/2011	Nutrient	Ammonia as N	n/a	=	2.62	mg/L	EPA 350.1	0.096	0.2			D,GB
2010/11-5	000NONPJ	matrix spike dup	5/2/2011	Nutrient	Ammonia as N	n/a	=	3.72	mg/L	EPA 350.1	0.24	0.5			D,GB
2010/11-5	000NONPJ	matrix spike dup	5/2/2011	Nutrient	Ammonia as N	n/a	=	3.62	mg/L	EPA 350.1	0.24	0.5			D,GB
2010/11-5	000NONPJ	matrix spike dup	5/2/2011	Nutrient	Ammonia as N	n/a	=	2.68	mg/L	EPA 350.1	0.096	0.2			D,GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/2/2011	Nutrient	Ammonia as N	n/a	=	81	%	EPA 350.1	-88	-88	90	110	D,GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/2/2011	Nutrient	Ammonia as N	n/a	=	75	%	EPA 350.1	-88	-88	90	110	D,GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/2/2011	Nutrient	Ammonia as N	n/a	=	118	%	EPA 350.1	-88	-88	90	110	D,GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/2/2011	Nutrient	Ammonia as N	n/a	=	117	%	EPA 350.1	-88	-88	90	110	D,GB
2010/11-5	000NONPJ	matrix spike, rec	5/2/2011	Nutrient	Ammonia as N	n/a	=	122	%	EPA 350.1	-88	-88	90	110	D,GB
2010/11-5	000NONPJ	matrix spike, rec	5/2/2011	Nutrient	Ammonia as N	n/a	=	81	%	EPA 350.1	-88	-88	90	110	D,GB
2010/11-5	000NONPJ	matrix spike, rec	5/2/2011	Nutrient	Ammonia as N	n/a	=	79	%	EPA 350.1	-88	-88	90	110	D,GB
2010/11-5	000NONPJ	matrix spike, rec	5/2/2011	Nutrient	Ammonia as N	n/a	=	121	%	EPA 350.1	-88	-88	90	110	D,GB
2010/11-5	000NONPJ	matrix spike, RPD	5/2/2011	Nutrient	Ammonia as N	n/a	=	1	%	EPA 350.1	-88	-88	0	10	D,GB
2010/11-5	000NONPJ	matrix spike, RPD	5/2/2011	Nutrient	Ammonia as N	n/a	=	0.03	%	EPA 350.1	-88	-88	0	15	D
2010/11-5	000NONPJ	matrix spike, RPD	5/2/2011	Nutrient	Ammonia as N	n/a	=	0.9	%	EPA 350.1	-88	-88	0	10	D,GB
2010/11-5	000NONPJ	matrix spike, RPD	5/2/2011	Nutrient	Ammonia as N	n/a	=	1	%	EPA 350.1	-88	-88	0	15	D
2010/11-5	Lab	LCS	4/28/2011	Nutrient	Ammonia as N	n/a	=	0.996	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	Lab	LCS, rec	4/28/2011	Nutrient	Ammonia as N	n/a	=	100	%	EPA 350.1	-88	-88	90	110	
2010/11-5	Lab	method blank	4/28/2011	Nutrient	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	Lab	LCS	5/2/2011	Nutrient	Ammonia as N	n/a	=	0.971	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	Lab	LCS	5/2/2011	Nutrient	Ammonia as N	n/a	=	1.02	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	Lab	LCS, rec	5/2/2011	Nutrient	Ammonia as N	n/a	=	97	%	EPA 350.1	-88	-88	90	110	
2010/11-5	Lab	LCS, rec	5/2/2011	Nutrient	Ammonia as N	n/a	=	102	%	EPA 350.1	-88	-88	90	110	
2010/11-5	Lab	method blank	5/2/2011	Nutrient	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	Lab	method blank	5/2/2011	Nutrient	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	Lab	LCS	5/9/2011	Nutrient	Ammonia as N	n/a	=	1.04	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	Lab	LCS, rec	5/9/2011	Nutrient	Ammonia as N	n/a	=	104	%	EPA 350.1	-88	-88	90	110	
2010/11-5	Lab	method blank	5/9/2011	Nutrient	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	MO-SIM	matrix spike	5/9/2011	Nutrient	Ammonia as N	n/a	=	1.03	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	MO-SIM	matrix spike dup	5/9/2011	Nutrient	Ammonia as N	n/a	=	1.06	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	MO-SIM	matrix spike dup, rec	5/9/2011	Nutrient	Ammonia as N	n/a	=	106	%	EPA 350.1	-88	-88	90	110	
2010/11-5	MO-SIM	matrix spike, rec	5/9/2011	Nutrient	Ammonia as N	n/a	=	103	%	EPA 350.1	-88	-88	90	110	
2010/11-5	MO-SIM	matrix spike, RPD	5/9/2011	Nutrient	Ammonia as N	n/a	=	3	%	EPA 350.1	-88	-88	0	15	
2010/11-5	MO-THO	matrix spike	5/9/2011	Nutrient	Ammonia as N	n/a	=	1.02	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	MO-THO	matrix spike dup	5/9/2011	Nutrient	Ammonia as N	n/a	=	1.03	mg/L	EPA 350.1	0.048	0.1			
2010/11-5	MO-THO	matrix spike dup, rec	5/9/2011	Nutrient	Ammonia as N	n/a	=	103	%	EPA 350.1	-88	-88	90	110	
2010/11-5	MO-THO	matrix spike, rec	5/9/2011	Nutrient	Ammonia as N	n/a	=	102	%	EPA 350.1	-88	-88	90	110	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-THO	matrix spike, RPD	5/9/2011	Nutrient	Ammonia as N	n/a	=	1	%	EPA 350.1	-88	-88	0	15	
2010/11-5	000NONPJ	matrix spike	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	9.02	mg/L	EPA 353.2	0.01	0.1			
2010/11-5	000NONPJ	matrix spike	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	9.1	mg/L	EPA 353.2	0.01	0.1			GB
2010/11-5	000NONPJ	matrix spike dup	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	8.91	mg/L	EPA 353.2	0.01	0.1			
2010/11-5	000NONPJ	matrix spike dup	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	9.09	mg/L	EPA 353.2	0.01	0.1			GB
2010/11-5	000NONPJ	matrix spike dup, rec	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	91	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike dup, rec	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	111	%	EPA 353.2	-88	-88	90	110	GB
2010/11-5	000NONPJ	matrix spike, rec	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	111	%	EPA 353.2	-88	-88	90	110	GB
2010/11-5	000NONPJ	matrix spike, rec	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	96	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, RPD	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike, RPD	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	0.03	%	EPA 353.2	-88	-88	0	20	GB
2010/11-5	000NONPJ	matrix spike	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	2.36	mg/L	EPA 353.2	0.01	0.1			
2010/11-5	000NONPJ	matrix spike	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	10.6	mg/L	EPA 353.2	0.01	0.1			
2010/11-5	000NONPJ	matrix spike dup	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	2.36	mg/L	EPA 353.2	0.01	0.1			
2010/11-5	000NONPJ	matrix spike dup	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	10.3	mg/L	EPA 353.2	0.01	0.1			
2010/11-5	000NONPJ	matrix spike dup, rec	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	94	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike dup, rec	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	93	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, rec	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	109	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, rec	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	94	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, RPD	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	0.3	%	EPA 353.2	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike, RPD	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	3	%	EPA 353.2	-88	-88	0	20	
2010/11-5	Lab	LCS	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	1.03	mg/L	EPA 353.2	0.01	0.1			
2010/11-5	Lab	LCS, rec	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	103	%	EPA 353.2	-88	-88	90	110	
2010/11-5	Lab	method blank	4/20/2011	Nutrient	Nitrate + Nitrite as N	n/a	DNQ	0.011	mg/L	EPA 353.2	0.01	0.1			IP
2010/11-5	Lab	LCS	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	1.07	mg/L	EPA 353.2	0.01	0.1			
2010/11-5	Lab	LCS, rec	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	=	107	%	EPA 353.2	-88	-88	90	110	
2010/11-5	Lab	method blank	4/29/2011	Nutrient	Nitrate + Nitrite as N	n/a	DNQ	0.03	mg/L	EPA 353.2	0.01	0.1			IP
2010/11-5	000NONPJ	matrix spike	4/20/2011	Nutrient	Nitrate as N	n/a	=	9.1	mg/L	EPA 353.2	0.041	0.1			GB
2010/11-5	000NONPJ	matrix spike	4/20/2011	Nutrient	Nitrate as N	n/a	=	9.02	mg/L	EPA 353.2	0.041	0.1			
2010/11-5	000NONPJ	matrix spike dup	4/20/2011	Nutrient	Nitrate as N	n/a	=	8.91	mg/L	EPA 353.2	0.041	0.1			
2010/11-5	000NONPJ	matrix spike dup	4/20/2011	Nutrient	Nitrate as N	n/a	=	9.09	mg/L	EPA 353.2	0.041	0.1			GB
2010/11-5	000NONPJ	matrix spike dup, rec	4/20/2011	Nutrient	Nitrate as N	n/a	=	111	%	EPA 353.2	-88	-88	90	110	GB
2010/11-5	000NONPJ	matrix spike dup, rec	4/20/2011	Nutrient	Nitrate as N	n/a	=	91	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, rec	4/20/2011	Nutrient	Nitrate as N	n/a	=	111	%	EPA 353.2	-88	-88	90	110	GB
2010/11-5	000NONPJ	matrix spike, rec	4/20/2011	Nutrient	Nitrate as N	n/a	=	96	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, RPD	4/20/2011	Nutrient	Nitrate as N	n/a	=	0.03	%	EPA 353.2	-88	-88	0	20	GB
2010/11-5	000NONPJ	matrix spike, RPD	4/20/2011	Nutrient	Nitrate as N	n/a	=	1	%	EPA 353.2	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike	4/29/2011	Nutrient	Nitrate as N	n/a	=	2.36	mg/L	EPA 353.2	0.041	0.1			
2010/11-5	000NONPJ	matrix spike	4/29/2011	Nutrient	Nitrate as N	n/a	=	10.6	mg/L	EPA 353.2	0.041	0.1			
2010/11-5	000NONPJ	matrix spike dup	4/29/2011	Nutrient	Nitrate as N	n/a	=	2.36	mg/L	EPA 353.2	0.041	0.1			
2010/11-5	000NONPJ	matrix spike dup	4/29/2011	Nutrient	Nitrate as N	n/a	=	10.3	mg/L	EPA 353.2	0.041	0.1			
2010/11-5	000NONPJ	matrix spike dup, rec	4/29/2011	Nutrient	Nitrate as N	n/a	=	94	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike dup, rec	4/29/2011	Nutrient	Nitrate as N	n/a	=	93	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, rec	4/29/2011	Nutrient	Nitrate as N	n/a	=	94	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, rec	4/29/2011	Nutrient	Nitrate as N	n/a	=	109	%	EPA 353.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, RPD	4/29/2011	Nutrient	Nitrate as N	n/a	=	0.3	%	EPA 353.2	-88	-88	0	20	
2010/11-5	000NONPJ	matrix spike, RPD	4/29/2011	Nutrient	Nitrate as N	n/a	=	3	%	EPA 353.2	-88	-88	0	20	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS	4/20/2011	Nutrient	Nitrate as N	n/a	=	1.03	mg/L	EPA 353.2	0.041	0.1			
2010/11-5	Lab	LCS, rec	4/20/2011	Nutrient	Nitrate as N	n/a	=	103	%	EPA 353.2	-88	-88	90	110	
2010/11-5	Lab	method blank	4/20/2011	Nutrient	Nitrate as N	n/a	<	0.041	mg/L	EPA 353.2	0.041	0.1			
2010/11-5	Lab	LCS	4/29/2011	Nutrient	Nitrate as N	n/a	=	1.07	mg/L	EPA 353.2	0.041	0.1			
2010/11-5	Lab	LCS, rec	4/29/2011	Nutrient	Nitrate as N	n/a	=	107	%	EPA 353.2	-88	-88	90	110	
2010/11-5	Lab	method blank	4/29/2011	Nutrient	Nitrate as N	n/a	<	0.041	mg/L	EPA 353.2	0.041	0.1			
2010/11-5	Lab	method blank	4/29/2011	Nutrient	Phosphorus as P	Dissolved	DNQ	0.0023	mg/L	EPA 365.1	0.0014	0.01			IP
2010/11-5	Lab	LCS	5/6/2011	Nutrient	Phosphorus as P	Dissolved	=	0.0451	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	Lab	LCS, rec	5/6/2011	Nutrient	Phosphorus as P	Dissolved	=	90	%	EPA 365.1	-88	-88	90	110	
2010/11-5	Lab	method blank	5/6/2011	Nutrient	Phosphorus as P	Dissolved	<	0.0014	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	Lab	LCS	4/29/2011	Nutrient	Phosphorus as P	Total	=	0.0467	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	Lab	LCS, rec	4/29/2011	Nutrient	Phosphorus as P	Total	=	93	%	EPA 365.1	-88	-88	90	110	
2010/11-5	Lab	method blank	4/29/2011	Nutrient	Phosphorus as P	Total	DNQ	0.0023	mg/L	EPA 365.1	0.0014	0.01			IP
2010/11-5	Lab	LCS	5/6/2011	Nutrient	Phosphorus as P	Total	=	0.0451	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	Lab	LCS, rec	5/6/2011	Nutrient	Phosphorus as P	Total	=	90	%	EPA 365.1	-88	-88	90	110	
2010/11-5	Lab	method blank	5/6/2011	Nutrient	Phosphorus as P	Total	<	0.0014	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	ME-VR2	matrix spike	4/29/2011	Nutrient	Phosphorus as P	Total	=	0.0682	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	ME-VR2	matrix spike dup	4/29/2011	Nutrient	Phosphorus as P	Total	=	0.0678	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	ME-VR2	matrix spike dup, rec	4/29/2011	Nutrient	Phosphorus as P	Total	=	102	%	EPA 365.1	-88	-88	90	110	
2010/11-5	ME-VR2	matrix spike, rec	4/29/2011	Nutrient	Phosphorus as P	Total	=	102	%	EPA 365.1	-88	-88	90	110	
2010/11-5	ME-VR2	matrix spike, RPD	4/29/2011	Nutrient	Phosphorus as P	Total	=	0.6	%	EPA 365.1	-88	-88	0	10	
2010/11-5	MO-OJA	matrix spike	4/29/2011	Nutrient	Phosphorus as P	Total	=	0.102	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	MO-OJA	matrix spike dup	4/29/2011	Nutrient	Phosphorus as P	Total	=	0.101	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	MO-OJA	matrix spike dup, rec	4/29/2011	Nutrient	Phosphorus as P	Total	=	105	%	EPA 365.1	-88	-88	90	110	
2010/11-5	MO-OJA	matrix spike, rec	4/29/2011	Nutrient	Phosphorus as P	Total	=	107	%	EPA 365.1	-88	-88	90	110	
2010/11-5	MO-OJA	matrix spike, RPD	4/29/2011	Nutrient	Phosphorus as P	Total	=	1	%	EPA 365.1	-88	-88	0	10	
2010/11-5	MO-SIM	matrix spike	5/6/2011	Nutrient	Phosphorus as P	Total	=	0.0658	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	MO-SIM	matrix spike dup	5/6/2011	Nutrient	Phosphorus as P	Total	=	0.0596	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	MO-SIM	matrix spike dup, rec	5/6/2011	Nutrient	Phosphorus as P	Total	=	95	%	EPA 365.1	-88	-88	90	110	
2010/11-5	MO-SIM	matrix spike, rec	5/6/2011	Nutrient	Phosphorus as P	Total	=	107	%	EPA 365.1	-88	-88	90	110	
2010/11-5	MO-SIM	matrix spike, RPD	5/6/2011	Nutrient	Phosphorus as P	Total	=	10	%	EPA 365.1	-88	-88	0	10	
2010/11-5	MO-THO	matrix spike	5/6/2011	Nutrient	Phosphorus as P	Total	=	0.0755	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	MO-THO	matrix spike dup	5/6/2011	Nutrient	Phosphorus as P	Total	=	0.0768	mg/L	EPA 365.1	0.0014	0.01			
2010/11-5	MO-THO	matrix spike dup, rec	5/6/2011	Nutrient	Phosphorus as P	Total	=	107	%	EPA 365.1	-88	-88	90	110	
2010/11-5	MO-THO	matrix spike, rec	5/6/2011	Nutrient	Phosphorus as P	Total	=	104	%	EPA 365.1	-88	-88	90	110	
2010/11-5	MO-THO	matrix spike, RPD	5/6/2011	Nutrient	Phosphorus as P	Total	=	2	%	EPA 365.1	-88	-88	0	10	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Nutrient	TKN	n/a	=	1.21	mg/L	EPA 351.2	0.074	0.1			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Nutrient	TKN	n/a	=	1.15	mg/L	EPA 351.2	0.074	0.1			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Nutrient	TKN	n/a	=	103	%	EPA 351.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Nutrient	TKN	n/a	=	109	%	EPA 351.2	-88	-88	90	110	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Nutrient	TKN	n/a	=	5	%	EPA 351.2	-88	-88	0	15	
2010/11-5	000NONPJ	matrix spike	5/5/2011	Nutrient	TKN	n/a	=	0.242	mg/L	EPA 351.2	0.074	0.1			GB
2010/11-5	000NONPJ	matrix spike	5/5/2011	Nutrient	TKN	n/a	=	0.564	mg/L	EPA 351.2	0.074	0.1			GB
2010/11-5	000NONPJ	matrix spike dup	5/5/2011	Nutrient	TKN	n/a	=	0.546	mg/L	EPA 351.2	0.074	0.1			GB
2010/11-5	000NONPJ	matrix spike dup	5/5/2011	Nutrient	TKN	n/a	=	0.494	mg/L	EPA 351.2	0.074	0.1			GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/5/2011	Nutrient	TKN	n/a	=	27	%	EPA 351.2	-88	-88	90	110	GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/5/2011	Nutrient	TKN	n/a	=	17	%	EPA 351.2	-88	-88	90	110	GB

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	000NONPJ	matrix spike, rec	5/5/2011	Nutrient	TKN	n/a	=	21	%	EPA 351.2	-88	-88	90	110	GB
2010/11-5	000NONPJ	matrix spike, rec	5/5/2011	Nutrient	TKN	n/a	=	12	%	EPA 351.2	-88	-88	90	110	GB
2010/11-5	000NONPJ	matrix spike, RPD	5/5/2011	Nutrient	TKN	n/a	=	77	%	EPA 351.2	-88	-88	0	15	IL
2010/11-5	000NONPJ	matrix spike, RPD	5/5/2011	Nutrient	TKN	n/a	=	13	%	EPA 351.2	-88	-88	0	15	
2010/11-5	Lab	LCS	5/4/2011	Nutrient	TKN	n/a	=	0.918	mg/L	EPA 351.2	0.074	0.1			
2010/11-5	Lab	LCS, rec	5/4/2011	Nutrient	TKN	n/a	=	92	%	EPA 351.2	-88	-88	90	110	
2010/11-5	Lab	method blank	5/4/2011	Nutrient	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1			
2010/11-5	Lab	LCS	5/5/2011	Nutrient	TKN	n/a	=	0.932	mg/L	EPA 351.2	0.074	0.1			
2010/11-5	Lab	LCS, rec	5/5/2011	Nutrient	TKN	n/a	=	93	%	EPA 351.2	-88	-88	90	110	
2010/11-5	Lab	method blank	5/5/2011	Nutrient	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1			
2010/11-5	Lab	LCS	4/26/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	28.7	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	29.8	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	60	%	EPA 625	-88	-88	44	142	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	57	%	EPA 625	-88	-88	44	142	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	4	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	35.7	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	39.9	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	80	%	EPA 625	-88	-88	44	142	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	71	%	EPA 625	-88	-88	44	142	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	1,2,4-Trichlorobenzene	n/a	=	11	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS	4/26/2011	Organic	1,2-Dichlorobenzene	n/a	=	30.8	µg/L	EPA 625	0.3	2			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	1,2-Dichlorobenzene	n/a	=	32.3	µg/L	EPA 625	0.3	2			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	1,2-Dichlorobenzene	n/a	=	65	%	EPA 625	-88	-88	32	129	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	1,2-Dichlorobenzene	n/a	=	62	%	EPA 625	-88	-88	32	129	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	1,2-Dichlorobenzene	n/a	=	5	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2			
2010/11-5	Lab	LCS	5/11/2011	Organic	1,2-Dichlorobenzene	n/a	=	37.4	µg/L	EPA 625	0.3	2			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	1,2-Dichlorobenzene	n/a	=	42.8	µg/L	EPA 625	0.3	2			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	1,2-Dichlorobenzene	n/a	=	86	%	EPA 625	-88	-88	32	129	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	1,2-Dichlorobenzene	n/a	=	75	%	EPA 625	-88	-88	32	129	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	1,2-Dichlorobenzene	n/a	=	14	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2			
2010/11-5	Lab	srgt LCS	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.8	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.8	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	108	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	srgt LCS, rec	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	108	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	srgt method blank	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.61	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	96	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	srgt LCS	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.9	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	11.1	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	111	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	srgt LCS, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	109	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	srgt method blank	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.9	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	99	%	EPA 524.2	-88	-88	70	130	
2010/11-5	ME-CC	srgt environ	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.66	µg/L	EPA 524.2	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	ME-CC	srgt environ, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	97	%	EPA 524.2	-88	-88	70	130	
2010/11-5	ME-SCR	srgt environ	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.49	µg/L	EPA 524.2	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	95	%	EPA 524.2	-88	-88	70	130	
2010/11-5	ME-VR2	srgt environ	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.23	µg/L	EPA 524.2	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	92	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-CAM	srgt environ	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.97	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	100	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-FIL	srgt environ	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.77	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	98	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-HUE	srgt environ	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.8	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	98	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-MEI	srgt environ	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.13	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	91	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-MPK	srgt environ	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.8	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	108	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-OJA	srgt environ	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.71	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	97	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-OXN	srgt environ	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.95	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	100	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-SIM	srgt environ	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.68	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	97	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-SPA	srgt environ	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	10.4	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	104	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-THO	srgt environ	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.64	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	4/29/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	96	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-VEN	srgt environ	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	9.84	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/20/2011	Organic	1,2-Dichlorobenzene-d4	n/a	=	98	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	method blank	4/26/2011	Organic	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1			
2010/11-5	Lab	method blank	5/11/2011	Organic	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1			
2010/11-5	Lab	LCS	4/26/2011	Organic	1,3-Dichlorobenzene	n/a	=	30.2	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	1,3-Dichlorobenzene	n/a	=	32.2	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	1,3-Dichlorobenzene	n/a	=	64	%	EPA 625	-88	-88	0.1	172	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	1,3-Dichlorobenzene	n/a	=	60	%	EPA 625	-88	-88	0.1	172	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	1,3-Dichlorobenzene	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	LCS	5/11/2011	Organic	1,3-Dichlorobenzene	n/a	=	39	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	1,3-Dichlorobenzene	n/a	=	43.7	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	1,3-Dichlorobenzene	n/a	=	87	%	EPA 625	-88	-88	0.1	172	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	1,3-Dichlorobenzene	n/a	=	78	%	EPA 625	-88	-88	0.1	172	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	1,3-Dichlorobenzene	n/a	=	11	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	srgt LCS	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.3	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.04	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt LCS, rec	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	106	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt method blank	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.22	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	104	%	EPA 525.2	-88	-88	73	136	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	srgt LCS	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.536	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS, rec	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	107	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt method blank	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.649	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	130	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt LCS	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.51	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.52	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	110	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt LCS, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	110	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt method blank	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.46	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	109	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt method blank	5/12/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.113	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	Lab	srgt method blank, rec	5/12/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	23	%	EPA 525.2	-88	-88	73	136	GN
2010/11-5	Lab	srgt LCS	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.511	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.518	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	104	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt LCS, rec	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	102	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt method blank	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.544	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	109	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt LCS	5/17/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.504	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS, rec	5/17/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt matrix spike	5/17/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.511	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt matrix spike dup	5/17/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.521	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt matrix spike dup, rec	5/17/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	104	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt matrix spike, rec	5/17/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	102	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	srgt method blank	5/17/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.504	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/17/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	101	%	EPA 525.2	-88	-88	73	136	
2010/11-5	ME-CC	srgt environ	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.35	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	107	%	EPA 525.2	-88	-88	73	136	
2010/11-5	ME-CC	srgt environ	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.526	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	105	%	EPA 525.2	-88	-88	73	136	
2010/11-5	ME-SCR	srgt environ	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.61	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	112	%	EPA 525.2	-88	-88	73	136	
2010/11-5	ME-SCR	srgt environ	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.544	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	109	%	EPA 525.2	-88	-88	73	136	
2010/11-5	ME-VR2	srgt environ	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.09	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	102	%	EPA 525.2	-88	-88	73	136	
2010/11-5	ME-VR2	srgt environ	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.551	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	110	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-CAM	srgt environ	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.65	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	113	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-CAM	srgt environ	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.559	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	112	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-FIL	srgt environ	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.57	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	111	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-FIL	srgt environ	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.613	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	123	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-HUE	srgt environ	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	6.42	µg/L	EPA 525.2	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-HUE	srgt environ, rec	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	128	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-HUE	srgt environ	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.537	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	107	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-MEI	srgt environ	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.3	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	106	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-MEI	srgt environ	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.563	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	113	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-MPK	srgt environ	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	6.1	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	122	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-MPK	srgt environ	5/17/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.567	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/17/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	113	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-OJA	srgt environ	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.72	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	114	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-OJA	srgt environ	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.602	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	120	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-OXN	srgt environ	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.66	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	113	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-OXN	srgt environ	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.556	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	111	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-SIM	srgt environ	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.9	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	118	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-SIM	srgt environ	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.556	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	111	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-SPA	srgt environ	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.35	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	107	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-SPA	srgt environ	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.516	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	103	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-THO	srgt environ	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	5.69	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/6/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	114	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-THO	srgt environ	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.527	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/16/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	105	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-VEN	srgt environ	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	4.72	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/22/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	94	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-VEN	srgt environ	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.562	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	112	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-VEN	srgt matrix spike	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.571	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-VEN	srgt matrix spike dup	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	0.565	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-VEN	srgt matrix spike dup, rec	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	113	%	EPA 525.2	-88	-88	73	136	
2010/11-5	MO-VEN	srgt matrix spike, rec	5/3/2011	Organic	1,3-Dimethyl-2-nitrobenzene	n/a	=	114	%	EPA 525.2	-88	-88	73	136	
2010/11-5	Lab	LCS	4/26/2011	Organic	1,4-Dichlorobenzene	n/a	=	30.6	µg/L	EPA 625	0.32	1			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	1,4-Dichlorobenzene	n/a	=	32.7	µg/L	EPA 625	0.32	1			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	1,4-Dichlorobenzene	n/a	=	65	%	EPA 625	-88	-88	20	124	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	1,4-Dichlorobenzene	n/a	=	61	%	EPA 625	-88	-88	20	124	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	1,4-Dichlorobenzene	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1			
2010/11-5	Lab	LCS	5/11/2011	Organic	1,4-Dichlorobenzene	n/a	=	40.3	µg/L	EPA 625	0.32	1			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	1,4-Dichlorobenzene	n/a	=	44.8	µg/L	EPA 625	0.32	1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	1,4-Dichlorobenzene	n/a	=	90	%	EPA 625	-88	-88	20	124	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	1,4-Dichlorobenzene	n/a	=	81	%	EPA 625	-88	-88	20	124	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	1,4-Dichlorobenzene	n/a	=	11	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1			
2010/11-5	Lab	method blank	4/25/2011	Organic	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1			
2010/11-5	Lab	method blank	5/6/2011	Organic	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1			
2010/11-5	Lab	srgt LCS	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	17.3	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	17.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	86	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	Lab	srgt LCS, rec	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	86	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	Lab	srgt method blank	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	16.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	83	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	Lab	srgt LCS	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	78.1	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	79.1	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	79	%	EPA 625	-88	-88	0.1	157	
2010/11-5	Lab	srgt LCS, rec	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	78	%	EPA 625	-88	-88	0.1	157	
2010/11-5	Lab	srgt method blank	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	77.1	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	77	%	EPA 625	-88	-88	0.1	157	
2010/11-5	Lab	srgt LCS	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.36	µg/L	EPA 8270Cm	-88	-88			GN
2010/11-5	Lab	srgt LCS dup	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	8.99	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	45	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	Lab	srgt LCS, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	42	%	EPA 8270Cm	-88	-88	44	115	GN
2010/11-5	Lab	srgt method blank	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	7.08	µg/L	EPA 8270Cm	-88	-88			GN
2010/11-5	Lab	srgt method blank, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	35	%	EPA 8270Cm	-88	-88	44	115	GN
2010/11-5	Lab	srgt LCS	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	76.6	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	82.2	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	82	%	EPA 625	-88	-88	0.1	157	
2010/11-5	Lab	srgt LCS, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	77	%	EPA 625	-88	-88	0.1	157	
2010/11-5	Lab	srgt method blank	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	77	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	77	%	EPA 625	-88	-88	0.1	157	
2010/11-5	ME-CC	srgt environ	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	10.3	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	51	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	ME-CC	srgt environ	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	79.7	µg/L	EPA 625	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	80	%	EPA 625	-88	-88	0.1	157	
2010/11-5	ME-SCR	srgt environ	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	11.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	56	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	ME-SCR	srgt environ	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	78.8	µg/L	EPA 625	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	79	%	EPA 625	-88	-88	0.1	157	
2010/11-5	ME-VR2	srgt environ	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	16.8	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	84	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	ME-VR2	srgt environ	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	81.2	µg/L	EPA 625	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	81	%	EPA 625	-88	-88	0.1	157	
2010/11-5	MO-CAM	srgt environ	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	11.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	58	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	MO-CAM	srgt environ	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	83.7	µg/L	EPA 625	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	84	%	EPA 625	-88	-88	0.1	157	
2010/11-5	MO-FIL	srgt environ	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	13.6	µg/L	EPA 8270Cm	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-FIL	srgt environ, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	68	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	MO-FIL	srgt environ	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	79.5	µg/L	EPA 625	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	79	%	EPA 625	-88	-88	0.1	157	
2010/11-5	MO-HUE	srgt environ	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	19.3	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	96	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	MO-HUE	srgt environ	4/27/2011	Organic	2,4,6-Tribromophenol	n/a	=	81.7	µg/L	EPA 625	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/27/2011	Organic	2,4,6-Tribromophenol	n/a	=	82	%	EPA 625	-88	-88	0.1	157	
2010/11-5	MO-MEI	srgt environ	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	17.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	86	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	MO-MEI	srgt environ	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	77.1	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	77	%	EPA 625	-88	-88	0.1	157	
2010/11-5	MO-MPK	srgt environ	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	13.7	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	55	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	MO-MPK	srgt environ	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	63.7	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	57	%	EPA 625	-88	-88	0.1	157	
2010/11-5	MO-OJA	srgt environ	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	35.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	89	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	MO-OJA	srgt environ	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	73.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/26/2011	Organic	2,4,6-Tribromophenol	n/a	=	74	%	EPA 625	-88	-88	0.1	157	
2010/11-5	MO-OXN	srgt environ	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	13.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	68	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	MO-OXN	srgt environ	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	76.4	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	73	%	EPA 625	-88	-88	0.1	157	
2010/11-5	MO-SIM	srgt environ	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	11.8	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	59	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	MO-SIM	srgt environ	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	75.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	76	%	EPA 625	-88	-88	0.1	157	
2010/11-5	MO-SPA	srgt environ	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	14.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	73	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	MO-SPA	srgt environ	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	82.9	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	83	%	EPA 625	-88	-88	0.1	157	
2010/11-5	MO-THO	srgt environ	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	12.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/6/2011	Organic	2,4,6-Tribromophenol	n/a	=	62	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	MO-THO	srgt environ	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	74.3	µg/L	EPA 625	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/11/2011	Organic	2,4,6-Tribromophenol	n/a	=	74	%	EPA 625	-88	-88	0.1	157	
2010/11-5	MO-VEN	srgt environ	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	12.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/25/2011	Organic	2,4,6-Tribromophenol	n/a	=	62	%	EPA 8270Cm	-88	-88	44	115	
2010/11-5	MO-VEN	srgt environ	4/27/2011	Organic	2,4,6-Tribromophenol	n/a	=	61.9	µg/L	EPA 625	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/27/2011	Organic	2,4,6-Tribromophenol	n/a	=	62	%	EPA 625	-88	-88	0.1	157	
2010/11-5	Lab	LCS	4/25/2011	Organic	2,4,6-Trichlorophenol	n/a	=	8.4	µg/L	EPA 8270Cm	0.3	1			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	2,4,6-Trichlorophenol	n/a	=	9.09	µg/L	EPA 8270Cm	0.3	1			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	2,4,6-Trichlorophenol	n/a	=	91	%	EPA 8270Cm	-88	-88	52	150	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	2,4,6-Trichlorophenol	n/a	=	84	%	EPA 8270Cm	-88	-88	52	150	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	2,4,6-Trichlorophenol	n/a	=	8	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			
2010/11-5	Lab	LCS	5/6/2011	Organic	2,4,6-Trichlorophenol	n/a	=	5.86	µg/L	EPA 8270Cm	0.3	1			
2010/11-5	Lab	LCS dup	5/6/2011	Organic	2,4,6-Trichlorophenol	n/a	=	6.58	µg/L	EPA 8270Cm	0.3	1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	2,4,6-Trichlorophenol	n/a	=	66	%	EPA 8270Cm	-88	-88	52	150	
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	2,4,6-Trichlorophenol	n/a	=	59	%	EPA 8270Cm	-88	-88	52	150	
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	2,4,6-Trichlorophenol	n/a	=	12	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			
2010/11-5	Lab	LCS	4/25/2011	Organic	2,4-Dichlorophenol	n/a	=	8.11	µg/L	EPA 8270Cm	0.51	1			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	2,4-Dichlorophenol	n/a	=	8.88	µg/L	EPA 8270Cm	0.51	1			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	2,4-Dichlorophenol	n/a	=	89	%	EPA 8270Cm	-88	-88	53	106	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	2,4-Dichlorophenol	n/a	=	81	%	EPA 8270Cm	-88	-88	53	106	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	2,4-Dichlorophenol	n/a	=	9	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1			
2010/11-5	Lab	LCS	5/6/2011	Organic	2,4-Dichlorophenol	n/a	=	6.34	µg/L	EPA 8270Cm	0.51	1			
2010/11-5	Lab	LCS dup	5/6/2011	Organic	2,4-Dichlorophenol	n/a	=	6.97	µg/L	EPA 8270Cm	0.51	1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	2,4-Dichlorophenol	n/a	=	70	%	EPA 8270Cm	-88	-88	53	106	
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	2,4-Dichlorophenol	n/a	=	63	%	EPA 8270Cm	-88	-88	53	106	
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	2,4-Dichlorophenol	n/a	=	9	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1			
2010/11-5	Lab	srgt LCS	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.93	µg/L	EPA 515.3	-88	-88			
2010/11-5	Lab	srgt LCS, rec	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	99	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	srgt matrix spike	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.93	µg/L	EPA 515.3	-88	-88			
2010/11-5	Lab	srgt matrix spike dup	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.85	µg/L	EPA 515.3	-88	-88			
2010/11-5	Lab	srgt matrix spike dup, rec	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	srgt matrix spike, rec	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	srgt method blank	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.57	µg/L	EPA 515.3	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	srgt LCS	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.1	µg/L	EPA 515.3	-88	-88			
2010/11-5	Lab	srgt LCS, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	91	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	srgt matrix spike	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.36	µg/L	EPA 515.3	-88	-88			
2010/11-5	Lab	srgt matrix spike dup	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.2	µg/L	EPA 515.3	-88	-88			
2010/11-5	Lab	srgt matrix spike dup, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	92	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	srgt matrix spike, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	94	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	srgt method blank	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.1	µg/L	EPA 515.3	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	81	%	EPA 515.3	-88	-88	70	130	
2010/11-5	ME-CC	srgt environ	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.03	µg/L	EPA 515.3	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-5	ME-SCR	srgt environ	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.41	µg/L	EPA 515.3	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	94	%	EPA 515.3	-88	-88	70	130	
2010/11-5	ME-VR2	srgt environ	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.38	µg/L	EPA 515.3	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	94	%	EPA 515.3	-88	-88	70	130	
2010/11-5	MO-CAM	srgt environ	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.39	µg/L	EPA 515.3	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	84	%	EPA 515.3	-88	-88	70	130	
2010/11-5	MO-FIL	srgt environ	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.72	µg/L	EPA 515.3	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	87	%	EPA 515.3	-88	-88	70	130	
2010/11-5	MO-HUE	srgt environ	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.38	µg/L	EPA 515.3	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	94	%	EPA 515.3	-88	-88	70	130	
2010/11-5	MO-MEI	srgt environ	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.44	µg/L	EPA 515.3	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	94	%	EPA 515.3	-88	-88	70	130	
2010/11-5	MO-MPK	srgt environ	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.54	µg/L	EPA 515.3	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-MPK	srgt environ, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	95	%	EPA 515.3	-88	-88	70	130	
2010/11-5	MO-OJA	srgt environ	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.69	µg/L	EPA 515.3	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	97	%	EPA 515.3	-88	-88	70	130	
2010/11-5	MO-OXN	srgt environ	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.24	µg/L	EPA 515.3	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	92	%	EPA 515.3	-88	-88	70	130	
2010/11-5	MO-SIM	srgt environ	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.96	µg/L	EPA 515.3	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-5	MO-SPA	srgt environ	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	8.67	µg/L	EPA 515.3	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	87	%	EPA 515.3	-88	-88	70	130	
2010/11-5	MO-THO	srgt environ	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.02	µg/L	EPA 515.3	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/4/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-5	MO-VEN	srgt environ	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	9.35	µg/L	EPA 515.3	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/28/2011	Organic	2,4-Dichlorophenylacetic acid	n/a	=	93	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	LCS	4/25/2011	Organic	2,4-Dimethylphenol	n/a	=	10.3	µg/L	EPA 8270Cm	1	2			EUM
2010/11-5	Lab	LCS dup	4/25/2011	Organic	2,4-Dimethylphenol	n/a	=	11.5	µg/L	EPA 8270Cm	1	2			EUM
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	2,4-Dimethylphenol	n/a	=	115	%	EPA 8270Cm	-88	-88	21	99	EUM
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	2,4-Dimethylphenol	n/a	=	103	%	EPA 8270Cm	-88	-88	21	99	EUM
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	2,4-Dimethylphenol	n/a	=	11	%	EPA 8270Cm	-88	-88	0	30	EUM
2010/11-5	Lab	method blank	4/25/2011	Organic	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS	5/6/2011	Organic	2,4-Dimethylphenol	n/a	=	10.1	µg/L	EPA 8270Cm	1	2			EUM
2010/11-5	Lab	LCS dup	5/6/2011	Organic	2,4-Dimethylphenol	n/a	=	10.6	µg/L	EPA 8270Cm	1	2			EUM
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	2,4-Dimethylphenol	n/a	=	106	%	EPA 8270Cm	-88	-88	21	99	EUM
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	2,4-Dimethylphenol	n/a	=	101	%	EPA 8270Cm	-88	-88	21	99	EUM
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	2,4-Dimethylphenol	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS	4/25/2011	Organic	2,4-Dinitrophenol	n/a	=	12.2	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	2,4-Dinitrophenol	n/a	=	12	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	2,4-Dinitrophenol	n/a	=	120	%	EPA 8270Cm	-88	-88	2	227	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	2,4-Dinitrophenol	n/a	=	122	%	EPA 8270Cm	-88	-88	2	227	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	2,4-Dinitrophenol	n/a	=	2	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS	5/6/2011	Organic	2,4-Dinitrophenol	n/a	=	3.95	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS dup	5/6/2011	Organic	2,4-Dinitrophenol	n/a	=	4.37	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	2,4-Dinitrophenol	n/a	=	44	%	EPA 8270Cm	-88	-88	2	227	
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	2,4-Dinitrophenol	n/a	=	40	%	EPA 8270Cm	-88	-88	2	227	
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	2,4-Dinitrophenol	n/a	=	10	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS	4/26/2011	Organic	2,4-Dinitrotoluene	n/a	=	39.7	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	2,4-Dinitrotoluene	n/a	=	40.8	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	2,4-Dinitrotoluene	n/a	=	82	%	EPA 625	-88	-88	39	139	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	2,4-Dinitrotoluene	n/a	=	79	%	EPA 625	-88	-88	39	139	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	2,4-Dinitrotoluene	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	2,4-Dinitrotoluene	n/a	=	41.1	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	2,4-Dinitrotoluene	n/a	=	46.4	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	2,4-Dinitrotoluene	n/a	=	93	%	EPA 625	-88	-88	39	139	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	2,4-Dinitrotoluene	n/a	=	82	%	EPA 625	-88	-88	39	139	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	2,4-Dinitrotoluene	n/a	=	12	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS	4/26/2011	Organic	2,6-Dinitrotoluene	n/a	=	39.5	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	2,6-Dinitrotoluene	n/a	=	41.2	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	2,6-Dinitrotoluene	n/a	=	82	%	EPA 625	-88	-88	50	158	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	2,6-Dinitrotoluene	n/a	=	79	%	EPA 625	-88	-88	50	158	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	2,6-Dinitrotoluene	n/a	=	4	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	2,6-Dinitrotoluene	n/a	=	38.2	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	2,6-Dinitrotoluene	n/a	=	43.4	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	2,6-Dinitrotoluene	n/a	=	87	%	EPA 625	-88	-88	50	158	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	2,6-Dinitrotoluene	n/a	=	76	%	EPA 625	-88	-88	50	158	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	2,6-Dinitrotoluene	n/a	=	13	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS	4/20/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	6.32	µg/L	EPA 524.2	0.35	1			
2010/11-5	Lab	LCS dup	4/20/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	6.32	µg/L	EPA 524.2	0.35	1			
2010/11-5	Lab	LCS dup, rec	4/20/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	105	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	LCS, rec	4/20/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	105	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	LCS, RPD	4/20/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	0	%	EPA 524.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/20/2011	Organic	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1			
2010/11-5	Lab	LCS	4/29/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	5.86	µg/L	EPA 524.2	0.35	1			
2010/11-5	Lab	LCS dup	4/29/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	6.05	µg/L	EPA 524.2	0.35	1			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	101	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	LCS, rec	4/29/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	98	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	LCS, RPD	4/29/2011	Organic	2-Chloroethyl vinyl ether	n/a	=	3	%	EPA 524.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Organic	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1			
2010/11-5	Lab	LCS	4/26/2011	Organic	2-Chloronaphthalene	n/a	=	37	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	2-Chloronaphthalene	n/a	=	39.1	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	2-Chloronaphthalene	n/a	=	78	%	EPA 625	-88	-88	60	118	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	2-Chloronaphthalene	n/a	=	74	%	EPA 625	-88	-88	60	118	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	2-Chloronaphthalene	n/a	=	5	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	2-Chloronaphthalene	n/a	=	41.3	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	2-Chloronaphthalene	n/a	=	44.2	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	2-Chloronaphthalene	n/a	=	88	%	EPA 625	-88	-88	60	118	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	2-Chloronaphthalene	n/a	=	83	%	EPA 625	-88	-88	60	118	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	2-Chloronaphthalene	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5			
2010/11-5	Lab	LCS	4/25/2011	Organic	2-Chlorophenol	n/a	=	7.95	µg/L	EPA 8270Cm	0.65	1			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	2-Chlorophenol	n/a	=	8.66	µg/L	EPA 8270Cm	0.65	1			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	2-Chlorophenol	n/a	=	87	%	EPA 8270Cm	-88	-88	46	92	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	2-Chlorophenol	n/a	=	80	%	EPA 8270Cm	-88	-88	46	92	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	2-Chlorophenol	n/a	=	9	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1			
2010/11-5	Lab	LCS	5/6/2011	Organic	2-Chlorophenol	n/a	=	7.64	µg/L	EPA 8270Cm	0.65	1			
2010/11-5	Lab	LCS dup	5/6/2011	Organic	2-Chlorophenol	n/a	=	8.07	µg/L	EPA 8270Cm	0.65	1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	2-Chlorophenol	n/a	=	81	%	EPA 8270Cm	-88	-88	46	92	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	2-Chlorophenol	n/a	=	76	%	EPA 8270Cm	-88	-88	46	92	
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	2-Chlorophenol	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1			
2010/11-5	Lab	srgt LCS	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	7.67	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	8.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	82	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	Lab	srgt LCS, rec	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	77	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	Lab	srgt method blank	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	7.34	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	73	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	Lab	srgt LCS	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	37.8	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	37.7	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	75	%	EPA 625	-88	-88	22	130	
2010/11-5	Lab	srgt LCS, rec	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	76	%	EPA 625	-88	-88	22	130	
2010/11-5	Lab	srgt method blank	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	35.6	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	71	%	EPA 625	-88	-88	22	130	
2010/11-5	Lab	srgt method blank	5/6/2011	Organic	2-Fluorobiphenyl	n/a	=	9.45	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/6/2011	Organic	2-Fluorobiphenyl	n/a	=	94	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	Lab	srgt LCS	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	8.99	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	9.43	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	94	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	Lab	srgt LCS, rec	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	90	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	Lab	srgt LCS	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	41.6	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	44.6	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	89	%	EPA 625	-88	-88	22	130	
2010/11-5	Lab	srgt LCS, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 625	-88	-88	22	130	
2010/11-5	Lab	srgt method blank	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	41.3	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 625	-88	-88	22	130	
2010/11-5	ME-CC	srgt environ	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	10.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	102	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	ME-CC	srgt environ	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	42.5	µg/L	EPA 625	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	85	%	EPA 625	-88	-88	22	130	
2010/11-5	ME-SCR	srgt environ	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	10.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	101	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	ME-SCR	srgt environ	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	43.5	µg/L	EPA 625	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	87	%	EPA 625	-88	-88	22	130	
2010/11-5	ME-VR2	srgt environ	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	7.82	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	78	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	ME-VR2	srgt environ	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	39.6	µg/L	EPA 625	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	79	%	EPA 625	-88	-88	22	130	
2010/11-5	MO-CAM	srgt environ	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	9.5	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	95	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	MO-CAM	srgt environ	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	45.1	µg/L	EPA 625	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	90	%	EPA 625	-88	-88	22	130	
2010/11-5	MO-FIL	srgt environ	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	10.3	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	103	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	MO-FIL	srgt environ	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	43.2	µg/L	EPA 625	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	86	%	EPA 625	-88	-88	22	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-HUE	srgt environ	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	8.93	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	89	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	MO-HUE	srgt environ	4/27/2011	Organic	2-Fluorobiphenyl	n/a	=	38.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/27/2011	Organic	2-Fluorobiphenyl	n/a	=	78	%	EPA 625	-88	-88	22	130	
2010/11-5	MO-MEI	srgt environ	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	7.63	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	76	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	MO-MEI	srgt environ	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	38.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	78	%	EPA 625	-88	-88	22	130	
2010/11-5	MO-MPK	srgt environ	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	10.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	MO-MPK	srgt environ	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	40.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	73	%	EPA 625	-88	-88	22	130	
2010/11-5	MO-OJA	srgt environ	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	16.5	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	82	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	MO-OJA	srgt environ	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	35	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/26/2011	Organic	2-Fluorobiphenyl	n/a	=	70	%	EPA 625	-88	-88	22	130	
2010/11-5	MO-OXN	srgt environ	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	10.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	101	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	MO-OXN	srgt environ	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	41.1	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	78	%	EPA 625	-88	-88	22	130	
2010/11-5	MO-SIM	srgt environ	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	9.97	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	100	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	MO-SIM	srgt environ	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	42.9	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	86	%	EPA 625	-88	-88	22	130	
2010/11-5	MO-SPA	srgt environ	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	10.7	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	107	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	MO-SPA	srgt environ	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	45.4	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	91	%	EPA 625	-88	-88	22	130	
2010/11-5	MO-THO	srgt environ	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	9.54	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/7/2011	Organic	2-Fluorobiphenyl	n/a	=	95	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	MO-THO	srgt environ	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	41.4	µg/L	EPA 625	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/11/2011	Organic	2-Fluorobiphenyl	n/a	=	83	%	EPA 625	-88	-88	22	130	
2010/11-5	MO-VEN	srgt environ	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	6.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/25/2011	Organic	2-Fluorobiphenyl	n/a	=	61	%	EPA 8270Cm	-88	-88	51	139	
2010/11-5	MO-VEN	srgt environ	4/27/2011	Organic	2-Fluorobiphenyl	n/a	=	29.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/27/2011	Organic	2-Fluorobiphenyl	n/a	=	60	%	EPA 625	-88	-88	22	130	
2010/11-5	Lab	srgt LCS	4/25/2011	Organic	2-Fluorophenol	n/a	=	10.5	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/25/2011	Organic	2-Fluorophenol	n/a	=	11.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/25/2011	Organic	2-Fluorophenol	n/a	=	55	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	Lab	srgt LCS, rec	4/25/2011	Organic	2-Fluorophenol	n/a	=	52	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	Lab	srgt method blank	4/25/2011	Organic	2-Fluorophenol	n/a	=	11.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/25/2011	Organic	2-Fluorophenol	n/a	=	56	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	Lab	srgt LCS	4/26/2011	Organic	2-Fluorophenol	n/a	=	60.1	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/26/2011	Organic	2-Fluorophenol	n/a	=	58.6	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/26/2011	Organic	2-Fluorophenol	n/a	=	59	%	EPA 625	-88	-88	6	96	
2010/11-5	Lab	srgt LCS, rec	4/26/2011	Organic	2-Fluorophenol	n/a	=	60	%	EPA 625	-88	-88	6	96	
2010/11-5	Lab	srgt method blank	4/26/2011	Organic	2-Fluorophenol	n/a	=	64.3	µg/L	EPA 625	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	srgt method blank, rec	4/26/2011	Organic	2-Fluorophenol	n/a	=	64	%	EPA 625	-88	-88	6	96	
2010/11-5	Lab	srgt LCS	5/6/2011	Organic	2-Fluorophenol	n/a	=	9.85	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/6/2011	Organic	2-Fluorophenol	n/a	=	10	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	50	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	Lab	srgt LCS, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	49	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	Lab	srgt method blank	5/6/2011	Organic	2-Fluorophenol	n/a	=	11.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	57	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	Lab	srgt LCS	5/11/2011	Organic	2-Fluorophenol	n/a	=	52.1	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/11/2011	Organic	2-Fluorophenol	n/a	=	56.6	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	57	%	EPA 625	-88	-88	6	96	
2010/11-5	Lab	srgt LCS, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	52	%	EPA 625	-88	-88	6	96	
2010/11-5	Lab	srgt method blank	5/11/2011	Organic	2-Fluorophenol	n/a	=	56.2	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	56	%	EPA 625	-88	-88	6	96	
2010/11-5	ME-CC	srgt environ	5/6/2011	Organic	2-Fluorophenol	n/a	=	9.36	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	47	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	ME-CC	srgt environ	5/11/2011	Organic	2-Fluorophenol	n/a	=	51.8	µg/L	EPA 625	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	52	%	EPA 625	-88	-88	6	96	
2010/11-5	ME-SCR	srgt environ	5/6/2011	Organic	2-Fluorophenol	n/a	=	9.92	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	50	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	ME-SCR	srgt environ	5/11/2011	Organic	2-Fluorophenol	n/a	=	51.9	µg/L	EPA 625	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	52	%	EPA 625	-88	-88	6	96	
2010/11-5	ME-VR2	srgt environ	4/25/2011	Organic	2-Fluorophenol	n/a	=	10.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/25/2011	Organic	2-Fluorophenol	n/a	=	51	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	ME-VR2	srgt environ	4/26/2011	Organic	2-Fluorophenol	n/a	=	66.8	µg/L	EPA 625	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/26/2011	Organic	2-Fluorophenol	n/a	=	67	%	EPA 625	-88	-88	6	96	
2010/11-5	MO-CAM	srgt environ	5/6/2011	Organic	2-Fluorophenol	n/a	=	9.82	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	49	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	MO-CAM	srgt environ	5/11/2011	Organic	2-Fluorophenol	n/a	=	53.4	µg/L	EPA 625	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	53	%	EPA 625	-88	-88	6	96	
2010/11-5	MO-FIL	srgt environ	5/6/2011	Organic	2-Fluorophenol	n/a	=	10.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	51	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	MO-FIL	srgt environ	5/11/2011	Organic	2-Fluorophenol	n/a	=	53.4	µg/L	EPA 625	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	53	%	EPA 625	-88	-88	6	96	
2010/11-5	MO-HUE	srgt environ	4/25/2011	Organic	2-Fluorophenol	n/a	=	10.7	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/25/2011	Organic	2-Fluorophenol	n/a	=	53	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	MO-HUE	srgt environ	4/27/2011	Organic	2-Fluorophenol	n/a	=	65.5	µg/L	EPA 625	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/27/2011	Organic	2-Fluorophenol	n/a	=	65	%	EPA 625	-88	-88	6	96	
2010/11-5	MO-MEI	srgt environ	4/25/2011	Organic	2-Fluorophenol	n/a	=	9.03	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/25/2011	Organic	2-Fluorophenol	n/a	=	45	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	MO-MEI	srgt environ	4/26/2011	Organic	2-Fluorophenol	n/a	=	53.4	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/26/2011	Organic	2-Fluorophenol	n/a	=	53	%	EPA 625	-88	-88	6	96	
2010/11-5	MO-MPK	srgt environ	5/6/2011	Organic	2-Fluorophenol	n/a	=	40.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	42	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	MO-MPK	srgt environ	5/11/2011	Organic	2-Fluorophenol	n/a	=	42.9	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	39	%	EPA 625	-88	-88	6	96	
2010/11-5	MO-OJA	srgt environ	4/25/2011	Organic	2-Fluorophenol	n/a	=	20.8	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/25/2011	Organic	2-Fluorophenol	n/a	=	52	%	EPA 8270Cm	-88	-88	24	82	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-OJA	srgt environ	4/26/2011	Organic	2-Fluorophenol	n/a	=	54.9	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/26/2011	Organic	2-Fluorophenol	n/a	=	55	%	EPA 625	-88	-88	6	96	
2010/11-5	MO-OXN	srgt environ	5/6/2011	Organic	2-Fluorophenol	n/a	=	9.66	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	48	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	MO-OXN	srgt environ	5/11/2011	Organic	2-Fluorophenol	n/a	=	47.7	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	45	%	EPA 625	-88	-88	6	96	
2010/11-5	MO-SIM	srgt environ	5/6/2011	Organic	2-Fluorophenol	n/a	=	9.32	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	47	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	MO-SIM	srgt environ	5/11/2011	Organic	2-Fluorophenol	n/a	=	53	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	53	%	EPA 625	-88	-88	6	96	
2010/11-5	MO-SPA	srgt environ	5/6/2011	Organic	2-Fluorophenol	n/a	=	10.9	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	55	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	MO-SPA	srgt environ	5/11/2011	Organic	2-Fluorophenol	n/a	=	54.3	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	54	%	EPA 625	-88	-88	6	96	
2010/11-5	MO-THO	srgt environ	5/6/2011	Organic	2-Fluorophenol	n/a	=	9.71	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/6/2011	Organic	2-Fluorophenol	n/a	=	49	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	MO-THO	srgt environ	5/11/2011	Organic	2-Fluorophenol	n/a	=	49.6	µg/L	EPA 625	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/11/2011	Organic	2-Fluorophenol	n/a	=	50	%	EPA 625	-88	-88	6	96	
2010/11-5	MO-VEN	srgt environ	4/25/2011	Organic	2-Fluorophenol	n/a	=	8.11	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/25/2011	Organic	2-Fluorophenol	n/a	=	41	%	EPA 8270Cm	-88	-88	24	82	
2010/11-5	MO-VEN	srgt environ	4/27/2011	Organic	2-Fluorophenol	n/a	=	48.3	µg/L	EPA 625	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/27/2011	Organic	2-Fluorophenol	n/a	=	48	%	EPA 625	-88	-88	6	96	
2010/11-5	Lab	method blank	4/25/2011	Organic	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1			
2010/11-5	Lab	method blank	5/6/2011	Organic	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1			
2010/11-5	Lab	LCS	4/25/2011	Organic	2-Nitrophenol	n/a	=	8.84	µg/L	EPA 8270Cm	0.71	1			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	2-Nitrophenol	n/a	=	9.43	µg/L	EPA 8270Cm	0.71	1			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	2-Nitrophenol	n/a	=	94	%	EPA 8270Cm	-88	-88	48	197	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	2-Nitrophenol	n/a	=	88	%	EPA 8270Cm	-88	-88	48	197	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	2-Nitrophenol	n/a	=	6	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1			
2010/11-5	Lab	LCS	5/6/2011	Organic	2-Nitrophenol	n/a	=	3.93	µg/L	EPA 8270Cm	0.71	1			EUM
2010/11-5	Lab	LCS dup	5/6/2011	Organic	2-Nitrophenol	n/a	=	4.37	µg/L	EPA 8270Cm	0.71	1			EUM
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	2-Nitrophenol	n/a	=	44	%	EPA 8270Cm	-88	-88	48	197	EUM
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	2-Nitrophenol	n/a	=	39	%	EPA 8270Cm	-88	-88	48	197	EUM
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	2-Nitrophenol	n/a	=	11	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1			
2010/11-5	Lab	LCS	4/26/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	51.7	µg/L	EPA 625	0.3	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	51.6	µg/L	EPA 625	0.3	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	103	%	EPA 625	-88	-88	0.1	262	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	103	%	EPA 625	-88	-88	0.1	262	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	0.2	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	33.5	µg/L	EPA 625	0.3	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	38.6	µg/L	EPA 625	0.3	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	77	%	EPA 625	-88	-88	0.1	262	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	67	%	EPA 625	-88	-88	0.1	262	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	3,3'-Dichlorobenzidine	n/a	=	14	%	EPA 625	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	method blank	5/11/2011	Organic	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5			
2010/11-5	Lab	method blank	4/25/2011	Organic	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			
2010/11-5	Lab	method blank	5/6/2011	Organic	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1			
2010/11-5	Lab	LCS	4/25/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	13.9	µg/L	EPA 8270Cm	0.14	1			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	14.1	µg/L	EPA 8270Cm	0.14	1			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	141	%	EPA 8270Cm	-88	-88	56	227	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	139	%	EPA 8270Cm	-88	-88	56	227	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	2	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1			
2010/11-5	Lab	LCS	5/6/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	3.29	µg/L	EPA 8270Cm	0.14	1			EUM
2010/11-5	Lab	LCS dup	5/6/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	3.66	µg/L	EPA 8270Cm	0.14	1			EUM
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	37	%	EPA 8270Cm	-88	-88	56	227	EUM
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	33	%	EPA 8270Cm	-88	-88	56	227	EUM
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	=	11	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1			
2010/11-5	Lab	srgt LCS	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	10.3	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	10.2	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	102	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	srgt LCS, rec	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	103	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	srgt method blank	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	9.87	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	99	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	srgt LCS	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	10.5	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	10.6	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	106	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	srgt LCS, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	105	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	srgt method blank	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	10.2	µg/L	EPA 524.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	102	%	EPA 524.2	-88	-88	70	130	
2010/11-5	ME-CC	srgt environ	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	10.1	µg/L	EPA 524.2	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	101	%	EPA 524.2	-88	-88	70	130	
2010/11-5	ME-SCR	srgt environ	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	9.91	µg/L	EPA 524.2	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	99	%	EPA 524.2	-88	-88	70	130	
2010/11-5	ME-VR2	srgt environ	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	9.55	µg/L	EPA 524.2	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	96	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-CAM	srgt environ	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	10.1	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	101	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-FIL	srgt environ	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	10.2	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	102	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-HUE	srgt environ	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	10	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	100	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-MEI	srgt environ	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	9.52	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	95	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-MPK	srgt environ	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	10.4	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	104	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-OJA	srgt environ	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	10	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	100	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-OXN	srgt environ	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	10	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	100	%	EPA 524.2	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-SIM	srgt environ	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	10	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	100	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-SPA	srgt environ	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	10.4	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	104	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-THO	srgt environ	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	10	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	4/29/2011	Organic	4-Bromofluorobenzene	n/a	=	100	%	EPA 524.2	-88	-88	70	130	
2010/11-5	MO-VEN	srgt environ	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	10	µg/L	EPA 524.2	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/20/2011	Organic	4-Bromofluorobenzene	n/a	=	100	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	LCS	4/26/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	34	µg/L	EPA 625	0.23	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	35.4	µg/L	EPA 625	0.23	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	71	%	EPA 625	-88	-88	56	127	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	68	%	EPA 625	-88	-88	56	127	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	4	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	33.3	µg/L	EPA 625	0.23	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	36.5	µg/L	EPA 625	0.23	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	73	%	EPA 625	-88	-88	56	127	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	67	%	EPA 625	-88	-88	56	127	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	4-Bromophenyl phenyl ether	n/a	=	9	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5			
2010/11-5	Lab	LCS	4/25/2011	Organic	4-Chloro-3-methylphenol	n/a	=	8.18	µg/L	EPA 8270Cm	0.37	1			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	4-Chloro-3-methylphenol	n/a	=	8.78	µg/L	EPA 8270Cm	0.37	1			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	4-Chloro-3-methylphenol	n/a	=	88	%	EPA 8270Cm	-88	-88	51	112	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	4-Chloro-3-methylphenol	n/a	=	82	%	EPA 8270Cm	-88	-88	51	112	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	4-Chloro-3-methylphenol	n/a	=	7	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1			
2010/11-5	Lab	LCS	5/6/2011	Organic	4-Chloro-3-methylphenol	n/a	=	6.54	µg/L	EPA 8270Cm	0.37	1			
2010/11-5	Lab	LCS dup	5/6/2011	Organic	4-Chloro-3-methylphenol	n/a	=	7.13	µg/L	EPA 8270Cm	0.37	1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	4-Chloro-3-methylphenol	n/a	=	71	%	EPA 8270Cm	-88	-88	51	112	
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	4-Chloro-3-methylphenol	n/a	=	65	%	EPA 8270Cm	-88	-88	51	112	
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	4-Chloro-3-methylphenol	n/a	=	9	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1			
2010/11-5	Lab	LCS	4/26/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	35.3	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	37.1	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	74	%	EPA 625	-88	-88	25	158	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	71	%	EPA 625	-88	-88	25	158	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	5	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	39.4	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	42.1	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	84	%	EPA 625	-88	-88	25	158	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	79	%	EPA 625	-88	-88	25	158	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	4-Chlorophenyl phenyl ether	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5			
2010/11-5	Lab	LCS	4/25/2011	Organic	4-Nitrophenol	n/a	=	3.37	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	4-Nitrophenol	n/a	=	3.5	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	4-Nitrophenol	n/a	=	35	%	EPA 8270Cm	-88	-88	15	73	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	4-Nitrophenol	n/a	=	34	%	EPA 8270Cm	-88	-88	15	73	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	4-Nitrophenol	n/a	=	4	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS	5/6/2011	Organic	4-Nitrophenol	n/a	DNQ	1.66	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS dup	5/6/2011	Organic	4-Nitrophenol	n/a	DNQ	1.94	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	4-Nitrophenol	n/a	=	19	%	EPA 8270Cm	-88	-88	15	73	
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	4-Nitrophenol	n/a	=	17	%	EPA 8270Cm	-88	-88	15	73	
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	4-Nitrophenol	n/a	=	16	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2			
2010/11-5	Lab	LCS	4/25/2011	Organic	Acenaphthene	n/a	=	8.65	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Acenaphthene	n/a	=	9.59	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Acenaphthene	n/a	=	96	%	EPA 8270Cm	-88	-88	47	145	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Acenaphthene	n/a	=	86	%	EPA 8270Cm	-88	-88	47	145	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Acenaphthene	n/a	=	10	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Acenaphthene	n/a	=	10.2	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Acenaphthene	n/a	=	10.8	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Acenaphthene	n/a	=	108	%	EPA 8270Cm	-88	-88	47	145	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Acenaphthene	n/a	=	102	%	EPA 8270Cm	-88	-88	47	145	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Acenaphthene	n/a	=	6	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/25/2011	Organic	Acenaphthylene	n/a	=	9.06	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Acenaphthylene	n/a	=	9.88	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Acenaphthylene	n/a	=	99	%	EPA 8270Cm	-88	-88	33	145	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Acenaphthylene	n/a	=	91	%	EPA 8270Cm	-88	-88	33	145	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Acenaphthylene	n/a	=	9	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Acenaphthylene	n/a	=	10.1	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Acenaphthylene	n/a	=	10.7	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Acenaphthylene	n/a	=	107	%	EPA 8270Cm	-88	-88	33	145	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Acenaphthylene	n/a	=	101	%	EPA 8270Cm	-88	-88	33	145	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Acenaphthylene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/25/2011	Organic	Anthracene	n/a	=	9.01	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Anthracene	n/a	=	9.63	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Anthracene	n/a	=	96	%	EPA 8270Cm	-88	-88	27	133	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Anthracene	n/a	=	90	%	EPA 8270Cm	-88	-88	27	133	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Anthracene	n/a	=	7	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Anthracene	n/a	=	10.8	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Anthracene	n/a	=	11.2	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Anthracene	n/a	=	112	%	EPA 8270Cm	-88	-88	27	133	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Anthracene	n/a	=	108	%	EPA 8270Cm	-88	-88	27	133	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Anthracene	n/a	=	3	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/25/2011	Organic	Benz(a)anthracene	n/a	=	9.54	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Benz(a)anthracene	n/a	=	10	µg/L	EPA 8270Cm	0.28	0.5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Benz(a)anthracene	n/a	=	100	%	EPA 8270Cm	-88	-88	33	143	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Benz(a)anthracene	n/a	=	95	%	EPA 8270Cm	-88	-88	33	143	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Benz(a)anthracene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Benz(a)anthracene	n/a	=	9.01	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Benz(a)anthracene	n/a	=	9.99	µg/L	EPA 8270Cm	0.28	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Benz(a)anthracene	n/a	=	100	%	EPA 8270Cm	-88	-88	33	143	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Benz(a)anthracene	n/a	=	90	%	EPA 8270Cm	-88	-88	33	143	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Benz(a)anthracene	n/a	=	10	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5			
2010/11-5	Lab	method blank	5/11/2011	Organic	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5			
2010/11-5	Lab	LCS	4/22/2011	Organic	Benzo(a)pyrene	n/a	=	3.28	µg/L	EPA 525.2	0.07	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Organic	Benzo(a)pyrene	n/a	=	3.48	µg/L	EPA 525.2	0.07	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Organic	Benzo(a)pyrene	n/a	=	70	%	EPA 525.2	-88	-88	54	136	
2010/11-5	Lab	LCS, rec	4/22/2011	Organic	Benzo(a)pyrene	n/a	=	66	%	EPA 525.2	-88	-88	54	136	
2010/11-5	Lab	LCS, RPD	4/22/2011	Organic	Benzo(a)pyrene	n/a	=	6	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Organic	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1			
2010/11-5	Lab	LCS	5/6/2011	Organic	Benzo(a)pyrene	n/a	=	4.28	µg/L	EPA 525.2	0.07	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Organic	Benzo(a)pyrene	n/a	=	5.14	µg/L	EPA 525.2	0.07	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	Benzo(a)pyrene	n/a	=	103	%	EPA 525.2	-88	-88	54	136	
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	Benzo(a)pyrene	n/a	=	86	%	EPA 525.2	-88	-88	54	136	
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	Benzo(a)pyrene	n/a	=	18	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1			
2010/11-5	Lab	LCS	4/25/2011	Organic	Benzo(b)fluoranthene	n/a	=	6.79	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Benzo(b)fluoranthene	n/a	=	6.82	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Benzo(b)fluoranthene	n/a	=	68	%	EPA 8270Cm	-88	-88	24	159	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Benzo(b)fluoranthene	n/a	=	68	%	EPA 8270Cm	-88	-88	24	159	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Benzo(b)fluoranthene	n/a	=	0.4	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Benzo(b)fluoranthene	n/a	=	6.82	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Benzo(b)fluoranthene	n/a	=	7.18	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Benzo(b)fluoranthene	n/a	=	72	%	EPA 8270Cm	-88	-88	24	159	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Benzo(b)fluoranthene	n/a	=	68	%	EPA 8270Cm	-88	-88	24	159	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Benzo(b)fluoranthene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/25/2011	Organic	Benzo(g,h,i)perylene	n/a	=	6.01	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Benzo(g,h,i)perylene	n/a	=	6.1	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Benzo(g,h,i)perylene	n/a	=	61	%	EPA 8270Cm	-88	-88	0.1	219	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Benzo(g,h,i)perylene	n/a	=	60	%	EPA 8270Cm	-88	-88	0.1	219	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Benzo(g,h,i)perylene	n/a	=	1	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Benzo(g,h,i)perylene	n/a	=	5.28	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Benzo(g,h,i)perylene	n/a	=	5.7	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Benzo(g,h,i)perylene	n/a	=	57	%	EPA 8270Cm	-88	-88	0.1	219	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Benzo(g,h,i)perylene	n/a	=	53	%	EPA 8270Cm	-88	-88	0.1	219	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Benzo(g,h,i)perylene	n/a	=	8	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/25/2011	Organic	Benzo(k)fluoranthene	n/a	=	6.14	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Benzo(k)fluoranthene	n/a	=	6.47	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Benzo(k)fluoranthene	n/a	=	65	%	EPA 8270Cm	-88	-88	11	162	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Benzo(k)fluoranthene	n/a	=	61	%	EPA 8270Cm	-88	-88	11	162	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Benzo(k)fluoranthene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Benzo(k)fluoranthene	n/a	=	6.92	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Benzo(k)fluoranthene	n/a	=	7.49	µg/L	EPA 8270Cm	0.12	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Benzo(k)fluoranthene	n/a	=	75	%	EPA 8270Cm	-88	-88	11	162	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Benzo(k)fluoranthene	n/a	=	69	%	EPA 8270Cm	-88	-88	11	162	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Benzo(k)fluoranthene	n/a	=	8	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	39.1	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	39.4	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	79	%	EPA 625	-88	-88	33	184	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	78	%	EPA 625	-88	-88	33	184	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	0.6	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	42.2	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	46	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	92	%	EPA 625	-88	-88	33	184	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	84	%	EPA 625	-88	-88	33	184	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Bis(2-chloroethoxy)methane	n/a	=	9	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5			
2010/11-5	Lab	LCS	4/26/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	39.2	µg/L	EPA 625	0.46	1			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	39	µg/L	EPA 625	0.46	1			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	78	%	EPA 625	-88	-88	12	158	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	78	%	EPA 625	-88	-88	12	158	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	0.7	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1			
2010/11-5	Lab	LCS	5/11/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	40.9	µg/L	EPA 625	0.46	1			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	44.5	µg/L	EPA 625	0.46	1			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	89	%	EPA 625	-88	-88	12	158	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	82	%	EPA 625	-88	-88	12	158	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Bis(2-chloroethyl)ether	n/a	=	9	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1			
2010/11-5	Lab	LCS	4/26/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	40	µg/L	EPA 625	0.48	2			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	39.7	µg/L	EPA 625	0.48	2			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	79	%	EPA 625	-88	-88	36	166	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	80	%	EPA 625	-88	-88	36	166	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	0.7	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2			
2010/11-5	Lab	LCS	5/11/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	40	µg/L	EPA 625	0.48	2			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	43.8	µg/L	EPA 625	0.48	2			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	88	%	EPA 625	-88	-88	36	166	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	80	%	EPA 625	-88	-88	36	166	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	=	9	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2			
2010/11-5	Lab	LCS	4/22/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	3.92	µg/L	EPA 525.2	0.1	5			
2010/11-5	Lab	LCS dup	4/22/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	DNQ	4.3	µg/L	EPA 525.2	0.1	5			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	86	%	EPA 525.2	-88	-88	50	145	
2010/11-5	Lab	LCS, rec	4/22/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	78	%	EPA 525.2	-88	-88	50	145	
2010/11-5	Lab	LCS, RPD	4/22/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	9	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5			
2010/11-5	Lab	LCS	5/6/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	6.03	µg/L	EPA 525.2	0.1	5			
2010/11-5	Lab	LCS dup	5/6/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	6.03	µg/L	EPA 525.2	0.1	5			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	121	%	EPA 525.2	-88	-88	50	145	
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	121	%	EPA 525.2	-88	-88	50	145	
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	=	0	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5			
2010/11-5	Lab	LCS	4/22/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	4.12	µg/L	EPA 525.2	1.1	3			
2010/11-5	Lab	LCS dup	4/22/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	4.54	µg/L	EPA 525.2	1.1	3			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	91	%	EPA 525.2	-88	-88	54	142	
2010/11-5	Lab	LCS, rec	4/22/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	82	%	EPA 525.2	-88	-88	54	142	
2010/11-5	Lab	LCS, RPD	4/22/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	10	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3			
2010/11-5	Lab	LCS	5/6/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	6.51	µg/L	EPA 525.2	1.1	3			
2010/11-5	Lab	LCS dup	5/6/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	5.99	µg/L	EPA 525.2	1.1	3			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	120	%	EPA 525.2	-88	-88	54	142	
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	130	%	EPA 525.2	-88	-88	54	142	
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	=	8	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3			
2010/11-5	Lab	LCS	4/26/2011	Organic	Butyl benzyl phthalate	n/a	=	41.3	µg/L	EPA 625	1	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Butyl benzyl phthalate	n/a	=	42	µg/L	EPA 625	1	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Butyl benzyl phthalate	n/a	=	84	%	EPA 625	-88	-88	0.1	152	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Butyl benzyl phthalate	n/a	=	83	%	EPA 625	-88	-88	0.1	152	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Butyl benzyl phthalate	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	Butyl benzyl phthalate	n/a	=	43.8	µg/L	EPA 625	1	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Butyl benzyl phthalate	n/a	=	47.6	µg/L	EPA 625	1	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Butyl benzyl phthalate	n/a	=	95	%	EPA 625	-88	-88	0.1	152	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Butyl benzyl phthalate	n/a	=	88	%	EPA 625	-88	-88	0.1	152	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Butyl benzyl phthalate	n/a	=	8	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5			
2010/11-5	Lab	LCS	4/25/2011	Organic	Chrysene	n/a	=	6.74	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Chrysene	n/a	=	6.89	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Chrysene	n/a	=	69	%	EPA 8270Cm	-88	-88	17	168	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Chrysene	n/a	=	67	%	EPA 8270Cm	-88	-88	17	168	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Chrysene	n/a	=	2	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Chrysene	n/a	=	8.07	µg/L	EPA 8270Cm	0.09	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Chrysene	n/a	=	8.28	µg/L	EPA 8270Cm	0.09	0.5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Chrysene	n/a	=	83	%	EPA 8270Cm	-88	-88	17	168	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Chrysene	n/a	=	81	%	EPA 8270Cm	-88	-88	17	168	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Chrysene	n/a	=	3	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/25/2011	Organic	Dibenz(a,h)anthracene	n/a	=	5.95	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Dibenz(a,h)anthracene	n/a	=	6.1	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Dibenz(a,h)anthracene	n/a	=	61	%	EPA 8270Cm	-88	-88	0.1	227	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Dibenz(a,h)anthracene	n/a	=	60	%	EPA 8270Cm	-88	-88	0.1	227	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Dibenz(a,h)anthracene	n/a	=	2	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Dibenz(a,h)anthracene	n/a	=	5.39	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Dibenz(a,h)anthracene	n/a	=	5.95	µg/L	EPA 8270Cm	0.13	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Dibenz(a,h)anthracene	n/a	=	60	%	EPA 8270Cm	-88	-88	0.1	227	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Dibenz(a,h)anthracene	n/a	=	54	%	EPA 8270Cm	-88	-88	0.1	227	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Dibenz(a,h)anthracene	n/a	=	10	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Organic	Diethyl phthalate	n/a	=	41	µg/L	EPA 625	0.23	2			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Diethyl phthalate	n/a	=	41.8	µg/L	EPA 625	0.23	2			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Diethyl phthalate	n/a	=	84	%	EPA 625	-88	-88	0.1	112	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Diethyl phthalate	n/a	=	82	%	EPA 625	-88	-88	0.1	112	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Diethyl phthalate	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2			
2010/11-5	Lab	LCS	5/11/2011	Organic	Diethyl phthalate	n/a	=	37.6	µg/L	EPA 625	0.23	2			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Diethyl phthalate	n/a	=	40.4	µg/L	EPA 625	0.23	2			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Diethyl phthalate	n/a	=	81	%	EPA 625	-88	-88	0.1	112	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Diethyl phthalate	n/a	=	75	%	EPA 625	-88	-88	0.1	112	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Diethyl phthalate	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2			
2010/11-5	Lab	LCS	4/26/2011	Organic	Dimethyl phthalate	n/a	=	38.7	µg/L	EPA 625	0.26	2			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Dimethyl phthalate	n/a	=	39.8	µg/L	EPA 625	0.26	2			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Dimethyl phthalate	n/a	=	80	%	EPA 625	-88	-88	0.1	112	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Dimethyl phthalate	n/a	=	77	%	EPA 625	-88	-88	0.1	112	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Dimethyl phthalate	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2			
2010/11-5	Lab	LCS	5/11/2011	Organic	Dimethyl phthalate	n/a	=	39.4	µg/L	EPA 625	0.26	2			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Dimethyl phthalate	n/a	=	43.1	µg/L	EPA 625	0.26	2			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Dimethyl phthalate	n/a	=	86	%	EPA 625	-88	-88	0.1	112	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Dimethyl phthalate	n/a	=	79	%	EPA 625	-88	-88	0.1	112	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Dimethyl phthalate	n/a	=	9	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2			
2010/11-5	Lab	LCS	4/26/2011	Organic	Di-n-butylphthalate	n/a	=	39	µg/L	EPA 625	0.53	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Di-n-butylphthalate	n/a	=	39.7	µg/L	EPA 625	0.53	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Di-n-butylphthalate	n/a	=	79	%	EPA 625	-88	-88	1	118	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Di-n-butylphthalate	n/a	=	78	%	EPA 625	-88	-88	1	118	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Di-n-butylphthalate	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	Di-n-butylphthalate	n/a	=	39.9	µg/L	EPA 625	0.53	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Di-n-butylphthalate	n/a	=	43.6	µg/L	EPA 625	0.53	5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Di-n-butylphthalate	n/a	=	87	%	EPA 625	-88	-88	1	118	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Di-n-butylphthalate	n/a	=	80	%	EPA 625	-88	-88	1	118	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Di-n-butylphthalate	n/a	=	9	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5			
2010/11-5	Lab	LCS	4/26/2011	Organic	Di-n-octylphthalate	n/a	=	37.2	µg/L	EPA 625	0.28	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Di-n-octylphthalate	n/a	=	37.8	µg/L	EPA 625	0.28	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Di-n-octylphthalate	n/a	=	76	%	EPA 625	-88	-88	6	146	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Di-n-octylphthalate	n/a	=	74	%	EPA 625	-88	-88	6	146	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Di-n-octylphthalate	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	Di-n-octylphthalate	n/a	=	42.8	µg/L	EPA 625	0.28	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Di-n-octylphthalate	n/a	=	46.8	µg/L	EPA 625	0.28	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Di-n-octylphthalate	n/a	=	94	%	EPA 625	-88	-88	6	146	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Di-n-octylphthalate	n/a	=	86	%	EPA 625	-88	-88	6	146	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Di-n-octylphthalate	n/a	=	9	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5			
2010/11-5	Lab	LCS	4/25/2011	Organic	Fluoranthene	n/a	=	9.61	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Fluoranthene	n/a	=	10	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Fluoranthene	n/a	=	100	%	EPA 8270Cm	-88	-88	26	137	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Fluoranthene	n/a	=	96	%	EPA 8270Cm	-88	-88	26	137	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Fluoranthene	n/a	=	4	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Fluoranthene	n/a	=	10.8	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Fluoranthene	n/a	=	11.4	µg/L	EPA 8270Cm	0.2	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Fluoranthene	n/a	=	114	%	EPA 8270Cm	-88	-88	26	137	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Fluoranthene	n/a	=	108	%	EPA 8270Cm	-88	-88	26	137	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Fluoranthene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/25/2011	Organic	Fluorene	n/a	=	9.7	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Fluorene	n/a	=	10.6	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Fluorene	n/a	=	106	%	EPA 8270Cm	-88	-88	59	121	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Fluorene	n/a	=	97	%	EPA 8270Cm	-88	-88	59	121	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Fluorene	n/a	=	9	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Fluorene	n/a	=	11.1	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Fluorene	n/a	=	11.6	µg/L	EPA 8270Cm	0.15	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Fluorene	n/a	=	116	%	EPA 8270Cm	-88	-88	59	121	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Fluorene	n/a	=	111	%	EPA 8270Cm	-88	-88	59	121	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Fluorene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Organic	Hexachlorobenzene	n/a	=	38.9	µg/L	EPA 625	0.15	1			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Hexachlorobenzene	n/a	=	40.1	µg/L	EPA 625	0.15	1			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Hexachlorobenzene	n/a	=	80	%	EPA 625	-88	-88	0.1	152	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Hexachlorobenzene	n/a	=	78	%	EPA 625	-88	-88	0.1	152	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Hexachlorobenzene	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1			
2010/11-5	Lab	LCS	5/11/2011	Organic	Hexachlorobenzene	n/a	=	37.1	µg/L	EPA 625	0.15	1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Hexachlorobenzene	n/a	=	41.1	µg/L	EPA 625	0.15	1			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Hexachlorobenzene	n/a	=	82	%	EPA 625	-88	-88	0.1	152	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Hexachlorobenzene	n/a	=	74	%	EPA 625	-88	-88	0.1	152	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Hexachlorobenzene	n/a	=	10	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1			
2010/11-5	Lab	LCS	4/26/2011	Organic	Hexachlorobutadiene	n/a	=	33.9	µg/L	EPA 625	0.41	1			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Hexachlorobutadiene	n/a	=	34.8	µg/L	EPA 625	0.41	1			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Hexachlorobutadiene	n/a	=	70	%	EPA 625	-88	-88	24	116	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Hexachlorobutadiene	n/a	=	68	%	EPA 625	-88	-88	24	116	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Hexachlorobutadiene	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1			
2010/11-5	Lab	LCS	5/11/2011	Organic	Hexachlorobutadiene	n/a	=	36.7	µg/L	EPA 625	0.41	1			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Hexachlorobutadiene	n/a	=	42.4	µg/L	EPA 625	0.41	1			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Hexachlorobutadiene	n/a	=	85	%	EPA 625	-88	-88	24	116	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Hexachlorobutadiene	n/a	=	73	%	EPA 625	-88	-88	24	116	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Hexachlorobutadiene	n/a	=	14	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1			
2010/11-5	Lab	LCS	4/26/2011	Organic	Hexachlorocyclopentadiene	n/a	=	23.1	µg/L	EPA 625	5	10			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Hexachlorocyclopentadiene	n/a	=	27.2	µg/L	EPA 625	5	10			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Hexachlorocyclopentadiene	n/a	=	54	%	EPA 625	-88	-88	0.1	136	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Hexachlorocyclopentadiene	n/a	=	46	%	EPA 625	-88	-88	0.1	136	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Hexachlorocyclopentadiene	n/a	=	16	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10			
2010/11-5	Lab	LCS	5/11/2011	Organic	Hexachlorocyclopentadiene	n/a	=	24.9	µg/L	EPA 625	5	10			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Hexachlorocyclopentadiene	n/a	=	30.9	µg/L	EPA 625	5	10			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Hexachlorocyclopentadiene	n/a	=	62	%	EPA 625	-88	-88	0.1	136	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Hexachlorocyclopentadiene	n/a	=	50	%	EPA 625	-88	-88	0.1	136	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Hexachlorocyclopentadiene	n/a	=	22	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10			
2010/11-5	Lab	LCS	4/26/2011	Organic	Hexachloroethane	n/a	=	29.6	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Hexachloroethane	n/a	=	31.5	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Hexachloroethane	n/a	=	63	%	EPA 625	-88	-88	40	113	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Hexachloroethane	n/a	=	59	%	EPA 625	-88	-88	40	113	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Hexachloroethane	n/a	=	6	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	LCS	5/11/2011	Organic	Hexachloroethane	n/a	=	34.7	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Hexachloroethane	n/a	=	39.7	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Hexachloroethane	n/a	=	79	%	EPA 625	-88	-88	40	113	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Hexachloroethane	n/a	=	69	%	EPA 625	-88	-88	40	113	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Hexachloroethane	n/a	=	13	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1			
2010/11-5	Lab	LCS	4/25/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	5.95	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	6.11	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	61	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	60	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	3	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	method blank	5/6/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	5.43	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	5.9	µg/L	EPA 8270Cm	0.1	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	59	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	54	%	EPA 8270Cm	-88	-88	0.1	171	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Indeno(1,2,3-cd)pyrene	n/a	=	8	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Organic	Isophorone	n/a	=	37.6	µg/L	EPA 625	0.33	1			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Isophorone	n/a	=	38.2	µg/L	EPA 625	0.33	1			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Isophorone	n/a	=	76	%	EPA 625	-88	-88	21	196	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Isophorone	n/a	=	75	%	EPA 625	-88	-88	21	196	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Isophorone	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1			
2010/11-5	Lab	LCS	5/11/2011	Organic	Isophorone	n/a	=	36	µg/L	EPA 625	0.33	1			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Isophorone	n/a	=	39.6	µg/L	EPA 625	0.33	1			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Isophorone	n/a	=	79	%	EPA 625	-88	-88	21	196	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Isophorone	n/a	=	72	%	EPA 625	-88	-88	21	196	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Isophorone	n/a	=	10	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1			
2010/11-5	Lab	LCS	4/20/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	6.1	µg/L	EPA 524.2	0.19	2			
2010/11-5	Lab	LCS dup	4/20/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	6.28	µg/L	EPA 524.2	0.19	2			
2010/11-5	Lab	LCS dup, rec	4/20/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	105	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	LCS, rec	4/20/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	102	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	LCS, RPD	4/20/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	3	%	EPA 524.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/20/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2			
2010/11-5	Lab	LCS	4/29/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	5.58	µg/L	EPA 524.2	0.19	2			
2010/11-5	Lab	LCS dup	4/29/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	5.91	µg/L	EPA 524.2	0.19	2			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	98	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	LCS, rec	4/29/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	93	%	EPA 524.2	-88	-88	70	130	
2010/11-5	Lab	LCS, RPD	4/29/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	=	6	%	EPA 524.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Organic	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2			
2010/11-5	Lab	LCS	4/25/2011	Organic	Naphthalene	n/a	=	7.92	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Naphthalene	n/a	=	8.88	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Naphthalene	n/a	=	89	%	EPA 8270Cm	-88	-88	21	133	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Naphthalene	n/a	=	79	%	EPA 8270Cm	-88	-88	21	133	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Naphthalene	n/a	=	11	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Naphthalene	n/a	=	10.3	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Naphthalene	n/a	=	10.9	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Naphthalene	n/a	=	109	%	EPA 8270Cm	-88	-88	21	133	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Naphthalene	n/a	=	103	%	EPA 8270Cm	-88	-88	21	133	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Naphthalene	n/a	=	6	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/26/2011	Organic	Nitrobenzene	n/a	=	37.9	µg/L	EPA 625	0.37	1			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	Nitrobenzene	n/a	=	38	µg/L	EPA 625	0.37	1			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	Nitrobenzene	n/a	=	76	%	EPA 625	-88	-88	35	180	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	Nitrobenzene	n/a	=	76	%	EPA 625	-88	-88	35	180	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	Nitrobenzene	n/a	=	0.2	%	EPA 625	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	method blank	4/26/2011	Organic	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1			
2010/11-5	Lab	LCS	5/11/2011	Organic	Nitrobenzene	n/a	=	37.2	µg/L	EPA 625	0.37	1			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	Nitrobenzene	n/a	=	40.1	µg/L	EPA 625	0.37	1			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	Nitrobenzene	n/a	=	80	%	EPA 625	-88	-88	35	180	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	Nitrobenzene	n/a	=	74	%	EPA 625	-88	-88	35	180	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	Nitrobenzene	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1			
2010/11-5	Lab	srgt LCS	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	8.36	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	9.56	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	96	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	Lab	srgt LCS, rec	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	84	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	Lab	srgt method blank	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	9.44	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	94	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	Lab	srgt LCS	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	41.1	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	39.7	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	79	%	EPA 625	-88	-88	34	139	
2010/11-5	Lab	srgt LCS, rec	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	82	%	EPA 625	-88	-88	34	139	
2010/11-5	Lab	srgt method blank	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	45.9	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	92	%	EPA 625	-88	-88	34	139	
2010/11-5	Lab	srgt method blank	5/6/2011	Organic	Nitrobenzene-d5	n/a	=	8.22	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/6/2011	Organic	Nitrobenzene-d5	n/a	=	82	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	Lab	srgt LCS	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	7.61	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	8.09	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	81	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	Lab	srgt LCS, rec	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	76	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	Lab	srgt LCS	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	39.3	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	42.9	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	86	%	EPA 625	-88	-88	34	139	
2010/11-5	Lab	srgt LCS, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	79	%	EPA 625	-88	-88	34	139	
2010/11-5	Lab	srgt method blank	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	41.4	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	83	%	EPA 625	-88	-88	34	139	
2010/11-5	ME-CC	srgt environ	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	8.65	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	86	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	ME-CC	srgt environ	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	43.1	µg/L	EPA 625	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	86	%	EPA 625	-88	-88	34	139	
2010/11-5	ME-SCR	srgt environ	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	8.5	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	85	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	ME-SCR	srgt environ	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	43.7	µg/L	EPA 625	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	87	%	EPA 625	-88	-88	34	139	
2010/11-5	ME-VR2	srgt environ	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	10	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	100	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	ME-VR2	srgt environ	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	48.3	µg/L	EPA 625	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	97	%	EPA 625	-88	-88	34	139	
2010/11-5	MO-CAM	srgt environ	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	8.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	82	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	MO-CAM	srgt environ	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	44.3	µg/L	EPA 625	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	89	%	EPA 625	-88	-88	34	139	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-FIL	srgt environ	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	8.85	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	88	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	MO-FIL	srgt environ	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	42.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	86	%	EPA 625	-88	-88	34	139	
2010/11-5	MO-HUE	srgt environ	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	9.4	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	94	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	MO-HUE	srgt environ	4/27/2011	Organic	Nitrobenzene-d5	n/a	=	47.6	µg/L	EPA 625	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/27/2011	Organic	Nitrobenzene-d5	n/a	=	95	%	EPA 625	-88	-88	34	139	
2010/11-5	MO-MEI	srgt environ	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	9.04	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	90	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	MO-MEI	srgt environ	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	44.4	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	89	%	EPA 625	-88	-88	34	139	
2010/11-5	MO-MPK	srgt environ	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	8.84	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	71	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	MO-MPK	srgt environ	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	40	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	72	%	EPA 625	-88	-88	34	139	
2010/11-5	MO-OJA	srgt environ	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	18.6	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	93	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	MO-OJA	srgt environ	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	41.9	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/26/2011	Organic	Nitrobenzene-d5	n/a	=	84	%	EPA 625	-88	-88	34	139	
2010/11-5	MO-OXN	srgt environ	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	8.2	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	82	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	MO-OXN	srgt environ	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	41	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	78	%	EPA 625	-88	-88	34	139	
2010/11-5	MO-SIM	srgt environ	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	8.45	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	84	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	MO-SIM	srgt environ	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	42.6	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	85	%	EPA 625	-88	-88	34	139	
2010/11-5	MO-SPA	srgt environ	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	8.96	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	90	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	MO-SPA	srgt environ	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	45.7	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	91	%	EPA 625	-88	-88	34	139	
2010/11-5	MO-THO	srgt environ	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	7.72	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/7/2011	Organic	Nitrobenzene-d5	n/a	=	77	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	MO-THO	srgt environ	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	40.9	µg/L	EPA 625	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/11/2011	Organic	Nitrobenzene-d5	n/a	=	82	%	EPA 625	-88	-88	34	139	
2010/11-5	MO-VEN	srgt environ	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	7.25	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/25/2011	Organic	Nitrobenzene-d5	n/a	=	72	%	EPA 8270Cm	-88	-88	51	143	
2010/11-5	MO-VEN	srgt environ	4/27/2011	Organic	Nitrobenzene-d5	n/a	=	34.5	µg/L	EPA 625	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/27/2011	Organic	Nitrobenzene-d5	n/a	=	69	%	EPA 625	-88	-88	34	139	
2010/11-5	Lab	LCS	4/26/2011	Organic	N-Nitrosodimethylamine	n/a	=	27.1	µg/L	EPA 625	0.36	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	N-Nitrosodimethylamine	n/a	=	26.4	µg/L	EPA 625	0.36	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	N-Nitrosodimethylamine	n/a	=	53	%	EPA 625	-88	-88	27	78	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	N-Nitrosodimethylamine	n/a	=	54	%	EPA 625	-88	-88	27	78	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	N-Nitrosodimethylamine	n/a	=	2	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	N-Nitrosodimethylamine	n/a	=	24.4	µg/L	EPA 625	0.36	5			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS dup	5/11/2011	Organic	N-Nitrosodimethylamine	n/a	=	27	µg/L	EPA 625	0.36	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	N-Nitrosodimethylamine	n/a	=	54	%	EPA 625	-88	-88	27	78	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	N-Nitrosodimethylamine	n/a	=	49	%	EPA 625	-88	-88	27	78	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	N-Nitrosodimethylamine	n/a	=	10	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5			
2010/11-5	Lab	LCS	4/26/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	39.4	µg/L	EPA 625	0.41	5			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	39.8	µg/L	EPA 625	0.41	5			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	80	%	EPA 625	-88	-88	0.1	230	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	79	%	EPA 625	-88	-88	0.1	230	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	1	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5			
2010/11-5	Lab	LCS	5/11/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	40.3	µg/L	EPA 625	0.41	5			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	43.2	µg/L	EPA 625	0.41	5			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	86	%	EPA 625	-88	-88	0.1	230	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	81	%	EPA 625	-88	-88	0.1	230	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	N-Nitrosodi-N-propylamine	n/a	=	7	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5			
2010/11-5	Lab	LCS	4/26/2011	Organic	N-Nitrosodiphenylamine	n/a	=	33.1	µg/L	EPA 625	0.23	1			
2010/11-5	Lab	LCS dup	4/26/2011	Organic	N-Nitrosodiphenylamine	n/a	=	34	µg/L	EPA 625	0.23	1			
2010/11-5	Lab	LCS dup, rec	4/26/2011	Organic	N-Nitrosodiphenylamine	n/a	=	68	%	EPA 625	-88	-88	48	129	
2010/11-5	Lab	LCS, rec	4/26/2011	Organic	N-Nitrosodiphenylamine	n/a	=	66	%	EPA 625	-88	-88	48	129	
2010/11-5	Lab	LCS, RPD	4/26/2011	Organic	N-Nitrosodiphenylamine	n/a	=	3	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	4/26/2011	Organic	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1			
2010/11-5	Lab	LCS	5/11/2011	Organic	N-Nitrosodiphenylamine	n/a	=	31.9	µg/L	EPA 625	0.23	1			
2010/11-5	Lab	LCS dup	5/11/2011	Organic	N-Nitrosodiphenylamine	n/a	=	34.7	µg/L	EPA 625	0.23	1			
2010/11-5	Lab	LCS dup, rec	5/11/2011	Organic	N-Nitrosodiphenylamine	n/a	=	69	%	EPA 625	-88	-88	48	129	
2010/11-5	Lab	LCS, rec	5/11/2011	Organic	N-Nitrosodiphenylamine	n/a	=	64	%	EPA 625	-88	-88	48	129	
2010/11-5	Lab	LCS, RPD	5/11/2011	Organic	N-Nitrosodiphenylamine	n/a	=	8	%	EPA 625	-88	-88	0	30	
2010/11-5	Lab	method blank	5/11/2011	Organic	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1			
2010/11-5	Lab	srgt LCS	4/22/2011	Organic	Perylene-d12	n/a	=	3.44	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/22/2011	Organic	Perylene-d12	n/a	=	3.46	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/22/2011	Organic	Perylene-d12	n/a	=	69	%	EPA 525.2	-88	-88	48	141	
2010/11-5	Lab	srgt LCS, rec	4/22/2011	Organic	Perylene-d12	n/a	=	69	%	EPA 525.2	-88	-88	48	141	
2010/11-5	Lab	srgt method blank	4/22/2011	Organic	Perylene-d12	n/a	=	3.5	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/22/2011	Organic	Perylene-d12	n/a	=	70	%	EPA 525.2	-88	-88	48	141	
2010/11-5	Lab	srgt LCS	5/6/2011	Organic	Perylene-d12	n/a	=	5.36	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/6/2011	Organic	Perylene-d12	n/a	=	5.15	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/6/2011	Organic	Perylene-d12	n/a	=	103	%	EPA 525.2	-88	-88	48	141	
2010/11-5	Lab	srgt LCS, rec	5/6/2011	Organic	Perylene-d12	n/a	=	107	%	EPA 525.2	-88	-88	48	141	
2010/11-5	Lab	srgt method blank	5/6/2011	Organic	Perylene-d12	n/a	=	5.19	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/6/2011	Organic	Perylene-d12	n/a	=	104	%	EPA 525.2	-88	-88	48	141	
2010/11-5	ME-CC	srgt environ	5/6/2011	Organic	Perylene-d12	n/a	=	4.96	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/6/2011	Organic	Perylene-d12	n/a	=	99	%	EPA 525.2	-88	-88	48	141	
2010/11-5	ME-SCR	srgt environ	5/6/2011	Organic	Perylene-d12	n/a	=	4.56	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/6/2011	Organic	Perylene-d12	n/a	=	91	%	EPA 525.2	-88	-88	48	141	
2010/11-5	ME-VR2	srgt environ	4/22/2011	Organic	Perylene-d12	n/a	=	3.07	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/22/2011	Organic	Perylene-d12	n/a	=	61	%	EPA 525.2	-88	-88	48	141	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-CAM	srgt environ	5/6/2011	Organic	Perylene-d12	n/a	=	4.2	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/6/2011	Organic	Perylene-d12	n/a	=	84	%	EPA 525.2	-88	-88	48	141	
2010/11-5	MO-FIL	srgt environ	5/6/2011	Organic	Perylene-d12	n/a	=	4.46	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/6/2011	Organic	Perylene-d12	n/a	=	89	%	EPA 525.2	-88	-88	48	141	
2010/11-5	MO-HUE	srgt environ	4/22/2011	Organic	Perylene-d12	n/a	=	3.18	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/22/2011	Organic	Perylene-d12	n/a	=	64	%	EPA 525.2	-88	-88	48	141	
2010/11-5	MO-MEI	srgt environ	4/22/2011	Organic	Perylene-d12	n/a	=	3.24	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/22/2011	Organic	Perylene-d12	n/a	=	65	%	EPA 525.2	-88	-88	48	141	
2010/11-5	MO-MPK	srgt environ	5/6/2011	Organic	Perylene-d12	n/a	=	3.91	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/6/2011	Organic	Perylene-d12	n/a	=	78	%	EPA 525.2	-88	-88	48	141	
2010/11-5	MO-OJA	srgt environ	4/22/2011	Organic	Perylene-d12	n/a	=	3.44	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/22/2011	Organic	Perylene-d12	n/a	=	69	%	EPA 525.2	-88	-88	48	141	
2010/11-5	MO-OXN	srgt environ	5/6/2011	Organic	Perylene-d12	n/a	=	3.26	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/6/2011	Organic	Perylene-d12	n/a	=	65	%	EPA 525.2	-88	-88	48	141	
2010/11-5	MO-SIM	srgt environ	5/6/2011	Organic	Perylene-d12	n/a	=	4.3	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/6/2011	Organic	Perylene-d12	n/a	=	86	%	EPA 525.2	-88	-88	48	141	
2010/11-5	MO-SPA	srgt environ	5/6/2011	Organic	Perylene-d12	n/a	=	3.87	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/6/2011	Organic	Perylene-d12	n/a	=	77	%	EPA 525.2	-88	-88	48	141	
2010/11-5	MO-THO	srgt environ	5/6/2011	Organic	Perylene-d12	n/a	=	4.44	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/6/2011	Organic	Perylene-d12	n/a	=	89	%	EPA 525.2	-88	-88	48	141	
2010/11-5	MO-VEN	srgt environ	4/22/2011	Organic	Perylene-d12	n/a	=	2.25	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	MO-VEN	srgt environ, rec	4/22/2011	Organic	Perylene-d12	n/a	=	45	%	EPA 525.2	-88	-88	48	141	GN
2010/11-5	Lab	LCS	4/25/2011	Organic	Phenanthrene	n/a	=	9.01	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Phenanthrene	n/a	=	9.47	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Phenanthrene	n/a	=	95	%	EPA 8270Cm	-88	-88	54	120	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Phenanthrene	n/a	=	90	%	EPA 8270Cm	-88	-88	54	120	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Phenanthrene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Phenanthrene	n/a	=	10.6	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Phenanthrene	n/a	=	10.9	µg/L	EPA 8270Cm	0.11	0.5			
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Phenanthrene	n/a	=	109	%	EPA 8270Cm	-88	-88	54	120	
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Phenanthrene	n/a	=	106	%	EPA 8270Cm	-88	-88	54	120	
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Phenanthrene	n/a	=	3	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	LCS	4/25/2011	Organic	Phenol	n/a	=	3.66	µg/L	EPA 8270Cm	0.35	1			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Phenol	n/a	=	3.83	µg/L	EPA 8270Cm	0.35	1			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Phenol	n/a	=	38	%	EPA 8270Cm	-88	-88	14	40	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Phenol	n/a	=	37	%	EPA 8270Cm	-88	-88	14	40	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Phenol	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1			
2010/11-5	Lab	LCS	5/6/2011	Organic	Phenol	n/a	=	3.22	µg/L	EPA 8270Cm	0.35	1			
2010/11-5	Lab	LCS dup	5/6/2011	Organic	Phenol	n/a	=	3.48	µg/L	EPA 8270Cm	0.35	1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Organic	Phenol	n/a	=	35	%	EPA 8270Cm	-88	-88	14	40	
2010/11-5	Lab	LCS, rec	5/6/2011	Organic	Phenol	n/a	=	32	%	EPA 8270Cm	-88	-88	14	40	
2010/11-5	Lab	LCS, RPD	5/6/2011	Organic	Phenol	n/a	=	8	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Organic	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1			
2010/11-5	Lab	srgt LCS	4/25/2011	Organic	Phenol-d5	n/a	=	7.09	µg/L	EPA 8270Cm	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	srgt LCS dup	4/25/2011	Organic	Phenol-d5	n/a	=	7.24	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/25/2011	Organic	Phenol-d5	n/a	=	36	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	Lab	srgt LCS, rec	4/25/2011	Organic	Phenol-d5	n/a	=	35	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	Lab	srgt method blank	4/25/2011	Organic	Phenol-d5	n/a	=	7.07	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/25/2011	Organic	Phenol-d5	n/a	=	35	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	Lab	srgt LCS	4/26/2011	Organic	Phenol-d5	n/a	=	37.9	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/26/2011	Organic	Phenol-d5	n/a	=	37.2	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/26/2011	Organic	Phenol-d5	n/a	=	37	%	EPA 625	-88	-88	2	70	
2010/11-5	Lab	srgt LCS, rec	4/26/2011	Organic	Phenol-d5	n/a	=	38	%	EPA 625	-88	-88	2	70	
2010/11-5	Lab	srgt method blank	4/26/2011	Organic	Phenol-d5	n/a	=	37.6	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/26/2011	Organic	Phenol-d5	n/a	=	38	%	EPA 625	-88	-88	2	70	
2010/11-5	Lab	srgt LCS	5/6/2011	Organic	Phenol-d5	n/a	=	6.17	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/6/2011	Organic	Phenol-d5	n/a	=	6.55	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/6/2011	Organic	Phenol-d5	n/a	=	33	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	Lab	srgt LCS, rec	5/6/2011	Organic	Phenol-d5	n/a	=	31	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	Lab	srgt method blank	5/6/2011	Organic	Phenol-d5	n/a	=	6.78	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/6/2011	Organic	Phenol-d5	n/a	=	34	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	Lab	srgt LCS	5/11/2011	Organic	Phenol-d5	n/a	=	34.1	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/11/2011	Organic	Phenol-d5	n/a	=	36.3	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/11/2011	Organic	Phenol-d5	n/a	=	36	%	EPA 625	-88	-88	2	70	
2010/11-5	Lab	srgt LCS, rec	5/11/2011	Organic	Phenol-d5	n/a	=	34	%	EPA 625	-88	-88	2	70	
2010/11-5	Lab	srgt method blank	5/11/2011	Organic	Phenol-d5	n/a	=	36.4	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/11/2011	Organic	Phenol-d5	n/a	=	36	%	EPA 625	-88	-88	2	70	
2010/11-5	ME-CC	srgt environ	5/6/2011	Organic	Phenol-d5	n/a	=	5.58	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/6/2011	Organic	Phenol-d5	n/a	=	28	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	ME-CC	srgt environ	5/11/2011	Organic	Phenol-d5	n/a	=	32.9	µg/L	EPA 625	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/11/2011	Organic	Phenol-d5	n/a	=	33	%	EPA 625	-88	-88	2	70	
2010/11-5	ME-SCR	srgt environ	5/6/2011	Organic	Phenol-d5	n/a	=	6.05	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/6/2011	Organic	Phenol-d5	n/a	=	30	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	ME-SCR	srgt environ	5/11/2011	Organic	Phenol-d5	n/a	=	33.4	µg/L	EPA 625	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/11/2011	Organic	Phenol-d5	n/a	=	33	%	EPA 625	-88	-88	2	70	
2010/11-5	ME-VR2	srgt environ	4/25/2011	Organic	Phenol-d5	n/a	=	6.17	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/25/2011	Organic	Phenol-d5	n/a	=	31	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	ME-VR2	srgt environ	4/26/2011	Organic	Phenol-d5	n/a	=	37.4	µg/L	EPA 625	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/26/2011	Organic	Phenol-d5	n/a	=	37	%	EPA 625	-88	-88	2	70	
2010/11-5	MO-CAM	srgt environ	5/6/2011	Organic	Phenol-d5	n/a	=	5.82	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/6/2011	Organic	Phenol-d5	n/a	=	29	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	MO-CAM	srgt environ	5/11/2011	Organic	Phenol-d5	n/a	=	35.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/11/2011	Organic	Phenol-d5	n/a	=	36	%	EPA 625	-88	-88	2	70	
2010/11-5	MO-FIL	srgt environ	5/6/2011	Organic	Phenol-d5	n/a	=	6.26	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/6/2011	Organic	Phenol-d5	n/a	=	31	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	MO-FIL	srgt environ	5/11/2011	Organic	Phenol-d5	n/a	=	35.2	µg/L	EPA 625	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/11/2011	Organic	Phenol-d5	n/a	=	35	%	EPA 625	-88	-88	2	70	
2010/11-5	MO-HUE	srgt environ	4/25/2011	Organic	Phenol-d5	n/a	=	6.57	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/25/2011	Organic	Phenol-d5	n/a	=	33	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	MO-HUE	srgt environ	4/27/2011	Organic	Phenol-d5	n/a	=	38.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/27/2011	Organic	Phenol-d5	n/a	=	39	%	EPA 625	-88	-88	2	70	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-MEI	srgt environ	4/25/2011	Organic	Phenol-d5	n/a	=	5.38	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/25/2011	Organic	Phenol-d5	n/a	=	27	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	MO-MEI	srgt environ	4/26/2011	Organic	Phenol-d5	n/a	=	31.6	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/26/2011	Organic	Phenol-d5	n/a	=	32	%	EPA 625	-88	-88	2	70	
2010/11-5	MO-MPK	srgt environ	5/6/2011	Organic	Phenol-d5	n/a	=	6.94	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/6/2011	Organic	Phenol-d5	n/a	=	28	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	MO-MPK	srgt environ	5/11/2011	Organic	Phenol-d5	n/a	=	29.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/11/2011	Organic	Phenol-d5	n/a	=	27	%	EPA 625	-88	-88	2	70	
2010/11-5	MO-OJA	srgt environ	4/25/2011	Organic	Phenol-d5	n/a	=	12.9	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/25/2011	Organic	Phenol-d5	n/a	=	32	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	MO-OJA	srgt environ	4/26/2011	Organic	Phenol-d5	n/a	=	31.4	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/26/2011	Organic	Phenol-d5	n/a	=	31	%	EPA 625	-88	-88	2	70	
2010/11-5	MO-OXN	srgt environ	5/6/2011	Organic	Phenol-d5	n/a	=	5.89	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/6/2011	Organic	Phenol-d5	n/a	=	29	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	MO-OXN	srgt environ	5/11/2011	Organic	Phenol-d5	n/a	=	33.9	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/11/2011	Organic	Phenol-d5	n/a	=	32	%	EPA 625	-88	-88	2	70	
2010/11-5	MO-SIM	srgt environ	5/6/2011	Organic	Phenol-d5	n/a	=	6	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/6/2011	Organic	Phenol-d5	n/a	=	30	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	MO-SIM	srgt environ	5/11/2011	Organic	Phenol-d5	n/a	=	35.2	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/11/2011	Organic	Phenol-d5	n/a	=	35	%	EPA 625	-88	-88	2	70	
2010/11-5	MO-SPA	srgt environ	5/6/2011	Organic	Phenol-d5	n/a	=	6.59	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/6/2011	Organic	Phenol-d5	n/a	=	33	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	MO-SPA	srgt environ	5/11/2011	Organic	Phenol-d5	n/a	=	35.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/11/2011	Organic	Phenol-d5	n/a	=	36	%	EPA 625	-88	-88	2	70	
2010/11-5	MO-THO	srgt environ	5/6/2011	Organic	Phenol-d5	n/a	=	5.84	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/6/2011	Organic	Phenol-d5	n/a	=	29	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	MO-THO	srgt environ	5/11/2011	Organic	Phenol-d5	n/a	=	32.1	µg/L	EPA 625	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/11/2011	Organic	Phenol-d5	n/a	=	32	%	EPA 625	-88	-88	2	70	
2010/11-5	MO-VEN	srgt environ	4/25/2011	Organic	Phenol-d5	n/a	=	4.77	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/25/2011	Organic	Phenol-d5	n/a	=	24	%	EPA 8270Cm	-88	-88	13	58	
2010/11-5	MO-VEN	srgt environ	4/27/2011	Organic	Phenol-d5	n/a	=	29.5	µg/L	EPA 625	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/27/2011	Organic	Phenol-d5	n/a	=	29	%	EPA 625	-88	-88	2	70	
2010/11-5	Lab	srgt LCS	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	8.85	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	8.94	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	89	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	Lab	srgt LCS, rec	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	88	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	Lab	srgt method blank	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	9.16	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	92	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	Lab	srgt LCS	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	44.3	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	44.6	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	89	%	EPA 625	-88	-88	6	145	
2010/11-5	Lab	srgt LCS, rec	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	89	%	EPA 625	-88	-88	6	145	
2010/11-5	Lab	srgt method blank	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	48.9	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	98	%	EPA 625	-88	-88	6	145	
2010/11-5	Lab	srgt method blank	5/6/2011	Organic	p-Terphenyl-d14	n/a	=	9.32	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/6/2011	Organic	p-Terphenyl-d14	n/a	=	93	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	Lab	srgt LCS	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	9.14	µg/L	EPA 8270Cm	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	srgt LCS dup	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	9.48	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	95	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	Lab	srgt LCS, rec	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	91	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	Lab	srgt LCS	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	44.8	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	48	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	96	%	EPA 625	-88	-88	6	145	
2010/11-5	Lab	srgt LCS, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	90	%	EPA 625	-88	-88	6	145	
2010/11-5	Lab	srgt method blank	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	45.1	µg/L	EPA 625	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	90	%	EPA 625	-88	-88	6	145	
2010/11-5	ME-CC	srgt environ	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	9.3	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	93	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	ME-CC	srgt environ	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	42.6	µg/L	EPA 625	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	85	%	EPA 625	-88	-88	6	145	
2010/11-5	ME-SCR	srgt environ	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	9.78	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	98	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	ME-SCR	srgt environ	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	42.9	µg/L	EPA 625	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	86	%	EPA 625	-88	-88	6	145	
2010/11-5	ME-VR2	srgt environ	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	9.35	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	94	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	ME-VR2	srgt environ	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	47.7	µg/L	EPA 625	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	95	%	EPA 625	-88	-88	6	145	
2010/11-5	MO-CAM	srgt environ	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	9.05	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	90	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	MO-CAM	srgt environ	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	46	µg/L	EPA 625	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	92	%	EPA 625	-88	-88	6	145	
2010/11-5	MO-FIL	srgt environ	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	9.44	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	94	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	MO-FIL	srgt environ	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	43.7	µg/L	EPA 625	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	87	%	EPA 625	-88	-88	6	145	
2010/11-5	MO-HUE	srgt environ	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	9.29	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	93	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	MO-HUE	srgt environ	4/27/2011	Organic	p-Terphenyl-d14	n/a	=	49.1	µg/L	EPA 625	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/27/2011	Organic	p-Terphenyl-d14	n/a	=	98	%	EPA 625	-88	-88	6	145	
2010/11-5	MO-MEI	srgt environ	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	8.75	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	88	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	MO-MEI	srgt environ	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	46.8	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	94	%	EPA 625	-88	-88	6	145	
2010/11-5	MO-MPK	srgt environ	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	9.5	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	76	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	MO-MPK	srgt environ	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	39.7	µg/L	EPA 625	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	71	%	EPA 625	-88	-88	6	145	
2010/11-5	MO-OJA	srgt environ	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	17.7	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	88	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	MO-OJA	srgt environ	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	43.3	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/26/2011	Organic	p-Terphenyl-d14	n/a	=	87	%	EPA 625	-88	-88	6	145	
2010/11-5	MO-OXN	srgt environ	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	9.12	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	91	%	EPA 8270Cm	-88	-88	19	134	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-OXN	srgt environ	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	42	µg/L	EPA 625	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	80	%	EPA 625	-88	-88	6	145	
2010/11-5	MO-SIM	srgt environ	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	8.95	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	90	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	MO-SIM	srgt environ	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	44	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	88	%	EPA 625	-88	-88	6	145	
2010/11-5	MO-SPA	srgt environ	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	9.89	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	99	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	MO-SPA	srgt environ	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	43.9	µg/L	EPA 625	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	88	%	EPA 625	-88	-88	6	145	
2010/11-5	MO-THO	srgt environ	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	9.1	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/7/2011	Organic	p-Terphenyl-d14	n/a	=	91	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	MO-THO	srgt environ	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	42.7	µg/L	EPA 625	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/11/2011	Organic	p-Terphenyl-d14	n/a	=	85	%	EPA 625	-88	-88	6	145	
2010/11-5	MO-VEN	srgt environ	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	6.33	µg/L	EPA 8270Cm	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/25/2011	Organic	p-Terphenyl-d14	n/a	=	63	%	EPA 8270Cm	-88	-88	19	134	
2010/11-5	MO-VEN	srgt environ	4/27/2011	Organic	p-Terphenyl-d14	n/a	=	34.5	µg/L	EPA 625	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/27/2011	Organic	p-Terphenyl-d14	n/a	=	69	%	EPA 625	-88	-88	6	145	
2010/11-5	Lab	LCS	4/25/2011	Organic	Pyrene	n/a	=	10.2	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-5	Lab	LCS dup	4/25/2011	Organic	Pyrene	n/a	=	10.6	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-5	Lab	LCS dup, rec	4/25/2011	Organic	Pyrene	n/a	=	106	%	EPA 8270Cm	-88	-88	52	115	
2010/11-5	Lab	LCS, rec	4/25/2011	Organic	Pyrene	n/a	=	102	%	EPA 8270Cm	-88	-88	52	115	
2010/11-5	Lab	LCS, RPD	4/25/2011	Organic	Pyrene	n/a	=	4	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	method blank	4/25/2011	Organic	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-5	Lab	method blank	5/6/2011	Organic	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5			
2010/11-5	Lab	LCS	5/7/2011	Organic	Pyrene	n/a	=	11.6	µg/L	EPA 8270Cm	0.21	0.5			EUM
2010/11-5	Lab	LCS dup	5/7/2011	Organic	Pyrene	n/a	=	12.1	µg/L	EPA 8270Cm	0.21	0.5			EUM
2010/11-5	Lab	LCS dup, rec	5/7/2011	Organic	Pyrene	n/a	=	121	%	EPA 8270Cm	-88	-88	52	115	EUM
2010/11-5	Lab	LCS, rec	5/7/2011	Organic	Pyrene	n/a	=	116	%	EPA 8270Cm	-88	-88	52	115	EUM
2010/11-5	Lab	LCS, RPD	5/7/2011	Organic	Pyrene	n/a	=	5	%	EPA 8270Cm	-88	-88	0	30	
2010/11-5	Lab	srgt LCS	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0697	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt LCS	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0859	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0852	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	85	%	EPA 608	-88	-88	26	131	
2010/11-5	Lab	srgt LCS, rec	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	70	%	EPA 608	-88	-88	26	131	
2010/11-5	Lab	srgt LCS, rec	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	86	%	EPA 608	-88	-88	26	131	
2010/11-5	Lab	srgt method blank	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0837	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	84	%	EPA 608	-88	-88	26	131	
2010/11-5	Lab	srgt LCS	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0601	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0639	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	64	%	EPA 608	-88	-88	26	131	
2010/11-5	Lab	srgt LCS, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	60	%	EPA 608	-88	-88	26	131	
2010/11-5	Lab	srgt method blank	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0609	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	61	%	EPA 608	-88	-88	26	131	
2010/11-5	ME-CC	srgt environ	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.054	µg/L	EPA 608	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	54	%	EPA 608	-88	-88	26	131	
2010/11-5	ME-SCR	srgt environ	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0465	µg/L	EPA 608	-88	-88			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	ME-SCR	srgt environ, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	46	%	EPA 608	-88	-88	26	131	
2010/11-5	ME-VR2	srgt environ	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0618	µg/L	EPA 608	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	62	%	EPA 608	-88	-88	26	131	
2010/11-5	MO-CAM	srgt environ	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0566	µg/L	EPA 608	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	57	%	EPA 608	-88	-88	26	131	
2010/11-5	MO-FIL	srgt environ	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0513	µg/L	EPA 608	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	51	%	EPA 608	-88	-88	26	131	
2010/11-5	MO-HUE	srgt environ	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0505	µg/L	EPA 608	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	51	%	EPA 608	-88	-88	26	131	
2010/11-5	MO-MEI	srgt environ	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0666	µg/L	EPA 608	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	67	%	EPA 608	-88	-88	26	131	
2010/11-5	MO-MPK	srgt environ	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0399	µg/L	EPA 608	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	38	%	EPA 608	-88	-88	26	131	
2010/11-5	MO-OJA	srgt environ	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0648	µg/L	EPA 608	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	65	%	EPA 608	-88	-88	26	131	
2010/11-5	MO-OXN	srgt environ	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.039	µg/L	EPA 608	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	37	%	EPA 608	-88	-88	26	131	
2010/11-5	MO-SIM	srgt environ	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0424	µg/L	EPA 608	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	42	%	EPA 608	-88	-88	26	131	
2010/11-5	MO-SPA	srgt environ	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0553	µg/L	EPA 608	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	55	%	EPA 608	-88	-88	26	131	
2010/11-5	MO-THO	srgt environ	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0396	µg/L	EPA 608	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/10/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	40	%	EPA 608	-88	-88	26	131	
2010/11-5	MO-VEN	srgt environ	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	0.0684	µg/L	EPA 608	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/29/2011	Organic	Tetrachloro-m-xylene (TCMX)	n/a	=	68	%	EPA 608	-88	-88	26	131	
2010/11-5	Lab	srgt LCS	4/22/2011	Organic	Triphenylphosphate	n/a	=	4.83	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/22/2011	Organic	Triphenylphosphate	n/a	=	4.89	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/22/2011	Organic	Triphenylphosphate	n/a	=	98	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt LCS, rec	4/22/2011	Organic	Triphenylphosphate	n/a	=	97	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt method blank	4/22/2011	Organic	Triphenylphosphate	n/a	=	5.04	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/22/2011	Organic	Triphenylphosphate	n/a	=	101	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt LCS	5/3/2011	Organic	Triphenylphosphate	n/a	=	0.61	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS, rec	5/3/2011	Organic	Triphenylphosphate	n/a	=	122	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt method blank	5/3/2011	Organic	Triphenylphosphate	n/a	=	0.51	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/3/2011	Organic	Triphenylphosphate	n/a	=	102	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt LCS	5/6/2011	Organic	Triphenylphosphate	n/a	=	8.74	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	Lab	srgt LCS dup	5/6/2011	Organic	Triphenylphosphate	n/a	=	7.65	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	Lab	srgt LCS dup, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	153	%	EPA 525.2	-88	-88	71	150	GN
2010/11-5	Lab	srgt LCS, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	175	%	EPA 525.2	-88	-88	71	150	GN
2010/11-5	Lab	srgt method blank	5/6/2011	Organic	Triphenylphosphate	n/a	=	7.75	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	Lab	srgt method blank, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	155	%	EPA 525.2	-88	-88	71	150	GN
2010/11-5	Lab	srgt method blank	5/12/2011	Organic	Triphenylphosphate	n/a	=	0.564	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/12/2011	Organic	Triphenylphosphate	n/a	=	113	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt LCS	5/16/2011	Organic	Triphenylphosphate	n/a	=	0.572	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/16/2011	Organic	Triphenylphosphate	n/a	=	0.57	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/16/2011	Organic	Triphenylphosphate	n/a	=	114	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt LCS, rec	5/16/2011	Organic	Triphenylphosphate	n/a	=	114	%	EPA 525.2	-88	-88	71	150	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	srgt method blank	5/16/2011	Organic	Triphenylphosphate	n/a	=	0.542	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/16/2011	Organic	Triphenylphosphate	n/a	=	108	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt LCS	5/17/2011	Organic	Triphenylphosphate	n/a	=	0.657	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt LCS, rec	5/17/2011	Organic	Triphenylphosphate	n/a	=	131	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt matrix spike	5/17/2011	Organic	Triphenylphosphate	n/a	=	0.595	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt matrix spike dup	5/17/2011	Organic	Triphenylphosphate	n/a	=	0.686	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt matrix spike dup, rec	5/17/2011	Organic	Triphenylphosphate	n/a	=	137	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt matrix spike, rec	5/17/2011	Organic	Triphenylphosphate	n/a	=	119	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt method blank	5/17/2011	Organic	Triphenylphosphate	n/a	=	0.475	µg/L	EPA 525.2	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/17/2011	Organic	Triphenylphosphate	n/a	=	95	%	EPA 525.2	-88	-88	71	150	
2010/11-5	ME-CC	srgt environ	5/6/2011	Organic	Triphenylphosphate	n/a	=	8.87	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	ME-CC	srgt environ, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	177	%	EPA 525.2	-88	-88	71	150	GN
2010/11-5	ME-CC	srgt environ	5/16/2011	Organic	Triphenylphosphate	n/a	=	0.684	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/16/2011	Organic	Triphenylphosphate	n/a	=	137	%	EPA 525.2	-88	-88	71	150	
2010/11-5	ME-SCR	srgt environ	5/6/2011	Organic	Triphenylphosphate	n/a	=	9.48	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	ME-SCR	srgt environ, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	190	%	EPA 525.2	-88	-88	71	150	GN
2010/11-5	ME-SCR	srgt environ	5/16/2011	Organic	Triphenylphosphate	n/a	=	0.469	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/16/2011	Organic	Triphenylphosphate	n/a	=	94	%	EPA 525.2	-88	-88	71	150	
2010/11-5	ME-VR2	srgt environ	4/22/2011	Organic	Triphenylphosphate	n/a	=	4.59	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/22/2011	Organic	Triphenylphosphate	n/a	=	92	%	EPA 525.2	-88	-88	71	150	
2010/11-5	ME-VR2	srgt environ	5/3/2011	Organic	Triphenylphosphate	n/a	=	0.523	µg/L	EPA 525.2	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	5/3/2011	Organic	Triphenylphosphate	n/a	=	105	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-CAM	srgt environ	5/6/2011	Organic	Triphenylphosphate	n/a	=	8.71	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	MO-CAM	srgt environ, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	174	%	EPA 525.2	-88	-88	71	150	GN
2010/11-5	MO-CAM	srgt environ	5/16/2011	Organic	Triphenylphosphate	n/a	=	0.673	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/16/2011	Organic	Triphenylphosphate	n/a	=	135	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-FIL	srgt environ	5/6/2011	Organic	Triphenylphosphate	n/a	=	8.43	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	MO-FIL	srgt environ, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	169	%	EPA 525.2	-88	-88	71	150	GN
2010/11-5	MO-FIL	srgt environ	5/16/2011	Organic	Triphenylphosphate	n/a	=	0.398	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/16/2011	Organic	Triphenylphosphate	n/a	=	80	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-HUE	srgt environ	4/22/2011	Organic	Triphenylphosphate	n/a	=	4.4	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/22/2011	Organic	Triphenylphosphate	n/a	=	88	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-HUE	srgt environ	5/3/2011	Organic	Triphenylphosphate	n/a	=	0.662	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	5/3/2011	Organic	Triphenylphosphate	n/a	=	132	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-MEI	srgt environ	4/22/2011	Organic	Triphenylphosphate	n/a	=	4.07	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/22/2011	Organic	Triphenylphosphate	n/a	=	81	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-MEI	srgt environ	5/3/2011	Organic	Triphenylphosphate	n/a	=	0.385	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	5/3/2011	Organic	Triphenylphosphate	n/a	=	77	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-MPK	srgt environ	5/6/2011	Organic	Triphenylphosphate	n/a	=	9.57	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	MO-MPK	srgt environ, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	191	%	EPA 525.2	-88	-88	71	150	GN
2010/11-5	MO-MPK	srgt environ	5/17/2011	Organic	Triphenylphosphate	n/a	=	0.375	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/17/2011	Organic	Triphenylphosphate	n/a	=	75	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-OJA	srgt environ	4/22/2011	Organic	Triphenylphosphate	n/a	=	4.69	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/22/2011	Organic	Triphenylphosphate	n/a	=	94	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-OJA	srgt environ	5/3/2011	Organic	Triphenylphosphate	n/a	=	0.364	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	5/3/2011	Organic	Triphenylphosphate	n/a	=	73	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-OXN	srgt environ	5/6/2011	Organic	Triphenylphosphate	n/a	=	8.44	µg/L	EPA 525.2	-88	-88			GN

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-OXN	srgt environ, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	169	%	EPA 525.2	-88	-88	71	150	GN
2010/11-5	MO-OXN	srgt environ	5/16/2011	Organic	Triphenylphosphate	n/a	=	0.59	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/16/2011	Organic	Triphenylphosphate	n/a	=	118	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-SIM	srgt environ	5/6/2011	Organic	Triphenylphosphate	n/a	=	7.01	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	140	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-SIM	srgt environ	5/16/2011	Organic	Triphenylphosphate	n/a	=	0.507	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/16/2011	Organic	Triphenylphosphate	n/a	=	101	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-SPA	srgt environ	5/6/2011	Organic	Triphenylphosphate	n/a	=	9.09	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	MO-SPA	srgt environ, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	182	%	EPA 525.2	-88	-88	71	150	GN
2010/11-5	MO-SPA	srgt environ	5/16/2011	Organic	Triphenylphosphate	n/a	=	0.867	µg/L	EPA 525.2	-88	-88			GN
2010/11-5	MO-SPA	srgt environ, rec	5/16/2011	Organic	Triphenylphosphate	n/a	=	173	%	EPA 525.2	-88	-88	71	150	GN
2010/11-5	MO-THO	srgt environ	5/6/2011	Organic	Triphenylphosphate	n/a	=	7.14	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/6/2011	Organic	Triphenylphosphate	n/a	=	143	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-THO	srgt environ	5/16/2011	Organic	Triphenylphosphate	n/a	=	0.614	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/16/2011	Organic	Triphenylphosphate	n/a	=	123	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-VEN	srgt environ	4/22/2011	Organic	Triphenylphosphate	n/a	=	5.07	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/22/2011	Organic	Triphenylphosphate	n/a	=	101	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-VEN	srgt environ	5/3/2011	Organic	Triphenylphosphate	n/a	=	0.48	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	5/3/2011	Organic	Triphenylphosphate	n/a	=	96	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-VEN	srgt matrix spike	5/3/2011	Organic	Triphenylphosphate	n/a	=	0.398	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-VEN	srgt matrix spike dup	5/3/2011	Organic	Triphenylphosphate	n/a	=	0.529	µg/L	EPA 525.2	-88	-88			
2010/11-5	MO-VEN	srgt matrix spike dup, rec	5/3/2011	Organic	Triphenylphosphate	n/a	=	106	%	EPA 525.2	-88	-88	71	150	
2010/11-5	MO-VEN	srgt matrix spike, rec	5/3/2011	Organic	Triphenylphosphate	n/a	=	80	%	EPA 525.2	-88	-88	71	150	
2010/11-5	Lab	srgt LCS	4/29/2011	PCB	PCB 209	n/a	=	0.127	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt LCS	4/29/2011	PCB	PCB 209	n/a	=	0.0997	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt LCS dup	4/29/2011	PCB	PCB 209	n/a	=	0.126	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	4/29/2011	PCB	PCB 209	n/a	=	126	%	EPA 608	-88	-88	0.1	154	
2010/11-5	Lab	srgt LCS, rec	4/29/2011	PCB	PCB 209	n/a	=	100	%	EPA 608	-88	-88	0.1	154	
2010/11-5	Lab	srgt LCS, rec	4/29/2011	PCB	PCB 209	n/a	=	127	%	EPA 608	-88	-88	0.1	154	
2010/11-5	Lab	srgt method blank	4/29/2011	PCB	PCB 209	n/a	=	0.118	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt method blank, rec	4/29/2011	PCB	PCB 209	n/a	=	118	%	EPA 608	-88	-88	0.1	154	
2010/11-5	Lab	srgt LCS	5/10/2011	PCB	PCB 209	n/a	=	0.0871	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt LCS dup	5/10/2011	PCB	PCB 209	n/a	=	0.0919	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt LCS dup, rec	5/10/2011	PCB	PCB 209	n/a	=	92	%	EPA 608	-88	-88	0.1	154	
2010/11-5	Lab	srgt LCS, rec	5/10/2011	PCB	PCB 209	n/a	=	87	%	EPA 608	-88	-88	0.1	154	
2010/11-5	Lab	srgt method blank	5/10/2011	PCB	PCB 209	n/a	=	0.0882	µg/L	EPA 608	-88	-88			
2010/11-5	Lab	srgt method blank, rec	5/10/2011	PCB	PCB 209	n/a	=	88	%	EPA 608	-88	-88	0.1	154	
2010/11-5	ME-CC	srgt environ	5/10/2011	PCB	PCB 209	n/a	=	0.0765	µg/L	EPA 608	-88	-88			
2010/11-5	ME-CC	srgt environ, rec	5/10/2011	PCB	PCB 209	n/a	=	76	%	EPA 608	-88	-88	0.1	154	
2010/11-5	ME-SCR	srgt environ	5/10/2011	PCB	PCB 209	n/a	=	0.0375	µg/L	EPA 608	-88	-88			
2010/11-5	ME-SCR	srgt environ, rec	5/10/2011	PCB	PCB 209	n/a	=	38	%	EPA 608	-88	-88	0.1	154	
2010/11-5	ME-VR2	srgt environ	4/29/2011	PCB	PCB 209	n/a	=	0.0911	µg/L	EPA 608	-88	-88			
2010/11-5	ME-VR2	srgt environ, rec	4/29/2011	PCB	PCB 209	n/a	=	91	%	EPA 608	-88	-88	0.1	154	
2010/11-5	MO-CAM	srgt environ	5/10/2011	PCB	PCB 209	n/a	=	0.0766	µg/L	EPA 608	-88	-88			
2010/11-5	MO-CAM	srgt environ, rec	5/10/2011	PCB	PCB 209	n/a	=	77	%	EPA 608	-88	-88	0.1	154	
2010/11-5	MO-FIL	srgt environ	5/10/2011	PCB	PCB 209	n/a	=	0.0548	µg/L	EPA 608	-88	-88			
2010/11-5	MO-FIL	srgt environ, rec	5/10/2011	PCB	PCB 209	n/a	=	55	%	EPA 608	-88	-88	0.1	154	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-HUE	srgt environ	4/29/2011	PCB	PCB 209	n/a	=	0.0709	µg/L	EPA 608	-88	-88			
2010/11-5	MO-HUE	srgt environ, rec	4/29/2011	PCB	PCB 209	n/a	=	71	%	EPA 608	-88	-88	0.1	154	
2010/11-5	MO-MEI	srgt environ	4/29/2011	PCB	PCB 209	n/a	=	0.0739	µg/L	EPA 608	-88	-88			
2010/11-5	MO-MEI	srgt environ, rec	4/29/2011	PCB	PCB 209	n/a	=	74	%	EPA 608	-88	-88	0.1	154	
2010/11-5	MO-MPK	srgt environ	5/10/2011	PCB	PCB 209	n/a	=	0.0478	µg/L	EPA 608	-88	-88			
2010/11-5	MO-MPK	srgt environ, rec	5/10/2011	PCB	PCB 209	n/a	=	45	%	EPA 608	-88	-88	0.1	154	
2010/11-5	MO-OJA	srgt environ	4/29/2011	PCB	PCB 209	n/a	=	0.0602	µg/L	EPA 608	-88	-88			
2010/11-5	MO-OJA	srgt environ, rec	4/29/2011	PCB	PCB 209	n/a	=	60	%	EPA 608	-88	-88	0.1	154	
2010/11-5	MO-OXN	srgt environ	5/10/2011	PCB	PCB 209	n/a	=	0.0603	µg/L	EPA 608	-88	-88			
2010/11-5	MO-OXN	srgt environ, rec	5/10/2011	PCB	PCB 209	n/a	=	57	%	EPA 608	-88	-88	0.1	154	
2010/11-5	MO-SIM	srgt environ	5/10/2011	PCB	PCB 209	n/a	=	0.0175	µg/L	EPA 608	-88	-88			
2010/11-5	MO-SIM	srgt environ, rec	5/10/2011	PCB	PCB 209	n/a	=	17	%	EPA 608	-88	-88	0.1	154	
2010/11-5	MO-SPA	srgt environ	5/10/2011	PCB	PCB 209	n/a	=	0.0461	µg/L	EPA 608	-88	-88			
2010/11-5	MO-SPA	srgt environ, rec	5/10/2011	PCB	PCB 209	n/a	=	46	%	EPA 608	-88	-88	0.1	154	
2010/11-5	MO-THO	srgt environ	5/10/2011	PCB	PCB 209	n/a	=	0.0556	µg/L	EPA 608	-88	-88			
2010/11-5	MO-THO	srgt environ, rec	5/10/2011	PCB	PCB 209	n/a	=	56	%	EPA 608	-88	-88	0.1	154	
2010/11-5	MO-VEN	srgt environ	4/29/2011	PCB	PCB 209	n/a	=	0.0856	µg/L	EPA 608	-88	-88			
2010/11-5	MO-VEN	srgt environ, rec	4/29/2011	PCB	PCB 209	n/a	=	86	%	EPA 608	-88	-88	0.1	154	
2010/11-5	Lab	method blank	4/29/2011	PCB	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5			
2010/11-5	Lab	method blank	5/10/2011	PCB	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5			
2010/11-5	Lab	method blank	4/29/2011	PCB	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5			
2010/11-5	Lab	method blank	5/10/2011	PCB	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5			
2010/11-5	Lab	method blank	4/29/2011	PCB	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5			
2010/11-5	Lab	method blank	5/10/2011	PCB	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5			
2010/11-5	Lab	method blank	4/29/2011	PCB	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5			
2010/11-5	Lab	method blank	5/10/2011	PCB	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5			
2010/11-5	Lab	method blank	4/29/2011	PCB	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5			
2010/11-5	Lab	method blank	5/10/2011	PCB	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5			
2010/11-5	Lab	method blank	4/29/2011	PCB	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5			
2010/11-5	Lab	method blank	5/10/2011	PCB	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5			
2010/11-5	Lab	method blank	4/29/2011	PCB	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5			
2010/11-5	Lab	method blank	5/10/2011	PCB	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5			
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	2,4,5-T	n/a	=	3.02	µg/L	EPA 515.3	0.07	0.2			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	2,4,5-T	n/a	=	3.08	µg/L	EPA 515.3	0.07	0.2			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	2,4,5-T	n/a	=	77	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	2,4,5-T	n/a	=	75	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	2,4,5-T	n/a	=	2	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	2,4,5-T	n/a	=	3.53	µg/L	EPA 515.3	0.07	0.2			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	2,4,5-T	n/a	=	3.36	µg/L	EPA 515.3	0.07	0.2			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	2,4,5-T	n/a	=	84	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	2,4,5-T	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	2,4,5-T	n/a	=	5	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	2,4,5-T	n/a	=	3.62	µg/L	EPA 515.3	0.07	0.2			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	2,4,5-T	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	2,4,5-T	n/a	=	3.54	µg/L	EPA 515.3	0.07	0.2			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	2,4,5-T	n/a	=	88	%	EPA 515.3	-88	-88	70	130	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2			
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	2,4,5-TP	n/a	=	3.61	µg/L	EPA 515.3	0.09	0.2			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	2,4,5-TP	n/a	=	3.48	µg/L	EPA 515.3	0.09	0.2			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	2,4,5-TP	n/a	=	87	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	2,4,5-TP	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	2,4,5-TP	n/a	=	4	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	2,4,5-TP	n/a	=	3.45	µg/L	EPA 515.3	0.09	0.2			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	2,4,5-TP	n/a	=	3.39	µg/L	EPA 515.3	0.09	0.2			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	2,4,5-TP	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	2,4,5-TP	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	2,4,5-TP	n/a	=	2	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	2,4,5-TP	n/a	=	4	µg/L	EPA 515.3	0.09	0.2			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	2,4,5-TP	n/a	=	100	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	2,4,5-TP	n/a	=	3.49	µg/L	EPA 515.3	0.09	0.2			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	2,4,5-TP	n/a	=	87	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2			
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	2,4-D	n/a	=	7.44	µg/L	EPA 515.3	0.07	0.4			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	2,4-D	n/a	=	7.26	µg/L	EPA 515.3	0.07	0.4			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	2,4-D	n/a	=	91	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	2,4-D	n/a	=	93	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	2,4-D	n/a	=	2	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	2,4-D	n/a	=	7.34	µg/L	EPA 515.3	0.07	0.4			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	2,4-D	n/a	=	7.08	µg/L	EPA 515.3	0.07	0.4			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	2,4-D	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	2,4-D	n/a	=	92	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	2,4-D	n/a	=	4	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	2,4-D	n/a	=	8.24	µg/L	EPA 515.3	0.07	0.4			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	2,4-D	n/a	=	103	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	2,4-D	n/a	=	7.3	µg/L	EPA 515.3	0.07	0.4			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	2,4-D	n/a	=	91	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4			
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	2,4-DB	n/a	=	14.1	µg/L	EPA 515.3	0.07	2			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	2,4-DB	n/a	=	13.9	µg/L	EPA 515.3	0.07	2			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	2,4-DB	n/a	=	87	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	2,4-DB	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	2,4-DB	n/a	=	2	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	2,4-DB	n/a	=	14.4	µg/L	EPA 515.3	0.07	2			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	2,4-DB	n/a	=	14.1	µg/L	EPA 515.3	0.07	2			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	2,4-DB	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	2,4-DB	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	2,4-DB	n/a	=	3	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	2,4-DB	n/a	=	15.8	µg/L	EPA 515.3	0.07	2			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	2,4-DB	n/a	=	99	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	2,4-DB	n/a	=	13.4	µg/L	EPA 515.3	0.07	2			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	2,4-DB	n/a	=	84	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2			
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	7.21	µg/L	EPA 515.3	0.09	1			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	7.19	µg/L	EPA 515.3	0.09	1			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	0.3	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	7.62	µg/L	EPA 515.3	0.09	1			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	7.33	µg/L	EPA 515.3	0.09	1			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	92	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	95	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	4	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	7.98	µg/L	EPA 515.3	0.09	1			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	100	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	7.08	µg/L	EPA 515.3	0.09	1			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	4,4'-DDD	n/a	=	0.0535	µg/L	EPA 608	0.003	0.05			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	4,4'-DDD	n/a	=	0.0734	µg/L	EPA 608	0.003	0.05			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	4,4'-DDD	n/a	=	0.0615	µg/L	EPA 608	0.003	0.05			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	4,4'-DDD	n/a	=	62	%	EPA 608	-88	-88	30	141	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	4,4'-DDD	n/a	=	73	%	EPA 608	-88	-88	30	141	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	4,4'-DDD	n/a	=	54	%	EPA 608	-88	-88	30	141	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	4,4'-DDD	n/a	=	18	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	4,4'-DDD	n/a	=	0.0633	µg/L	EPA 608	0.003	0.05			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	4,4'-DDD	n/a	=	0.07	µg/L	EPA 608	0.003	0.05			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	4,4'-DDD	n/a	=	70	%	EPA 608	-88	-88	30	141	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	4,4'-DDD	n/a	=	63	%	EPA 608	-88	-88	30	141	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	4,4'-DDD	n/a	=	10	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	4,4'-DDE	n/a	=	0.0802	µg/L	EPA 608	0.0025	0.05			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	4,4'-DDE	n/a	=	0.0745	µg/L	EPA 608	0.0025	0.05			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	4,4'-DDE	n/a	=	0.0768	µg/L	EPA 608	0.0025	0.05			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	4,4'-DDE	n/a	=	77	%	EPA 608	-88	-88	30	145	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	4,4'-DDE	n/a	=	80	%	EPA 608	-88	-88	30	145	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	4,4'-DDE	n/a	=	74	%	EPA 608	-88	-88	30	145	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	4,4'-DDE	n/a	=	4	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	4,4'-DDE	n/a	=	0.0644	µg/L	EPA 608	0.0025	0.05			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	4,4'-DDE	n/a	=	0.0713	µg/L	EPA 608	0.0025	0.05			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	4,4'-DDE	n/a	=	71	%	EPA 608	-88	-88	30	145	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	4,4'-DDE	n/a	=	64	%	EPA 608	-88	-88	30	145	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	4,4'-DDE	n/a	=	10	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	4,4'-DDT	n/a	=	0.0596	µg/L	EPA 608	0.0031	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS	4/29/2011	Pesticide	4,4'-DDT	n/a	=	0.0995	µg/L	EPA 608	0.0031	0.01			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	4,4'-DDT	n/a	=	0.0932	µg/L	EPA 608	0.0031	0.01			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	4,4'-DDT	n/a	=	93	%	EPA 608	-88	-88	25	160	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	4,4'-DDT	n/a	=	100	%	EPA 608	-88	-88	25	160	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	4,4'-DDT	n/a	=	60	%	EPA 608	-88	-88	25	160	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	4,4'-DDT	n/a	=	7	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	4,4'-DDT	n/a	=	0.08	µg/L	EPA 608	0.0031	0.01			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	4,4'-DDT	n/a	=	0.0864	µg/L	EPA 608	0.0031	0.01			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	4,4'-DDT	n/a	=	86	%	EPA 608	-88	-88	25	160	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	4,4'-DDT	n/a	=	80	%	EPA 608	-88	-88	25	160	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	4,4'-DDT	n/a	=	8	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01			
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	Acifluorfen	n/a	=	3.63	µg/L	EPA 515.3	0.06	0.4			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	Acifluorfen	n/a	=	3.4	µg/L	EPA 515.3	0.06	0.4			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	Acifluorfen	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	Acifluorfen	n/a	=	91	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	Acifluorfen	n/a	=	6	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	Acifluorfen	n/a	=	3.43	µg/L	EPA 515.3	0.06	0.4			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	Acifluorfen	n/a	=	3.26	µg/L	EPA 515.3	0.06	0.4			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	Acifluorfen	n/a	=	81	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	Acifluorfen	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	Acifluorfen	n/a	=	5	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	Acifluorfen	n/a	=	4.05	µg/L	EPA 515.3	0.06	0.4			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	Acifluorfen	n/a	=	101	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	Acifluorfen	n/a	=	3.21	µg/L	EPA 515.3	0.06	0.4			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	Acifluorfen	n/a	=	80	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4			
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Alachlor	n/a	=	5.22	µg/L	EPA 525.2	0.022	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Alachlor	n/a	=	5.53	µg/L	EPA 525.2	0.022	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Alachlor	n/a	=	111	%	EPA 525.2	-88	-88	58	164	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Alachlor	n/a	=	104	%	EPA 525.2	-88	-88	58	164	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Alachlor	n/a	=	6	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Alachlor	n/a	=	6.41	µg/L	EPA 525.2	0.022	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Alachlor	n/a	=	6.26	µg/L	EPA 525.2	0.022	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Alachlor	n/a	=	125	%	EPA 525.2	-88	-88	58	164	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Alachlor	n/a	=	128	%	EPA 525.2	-88	-88	58	164	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Alachlor	n/a	=	2	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Aldrin	n/a	=	0.0689	µg/L	EPA 608	0.0015	0.005			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Aldrin	n/a	=	0.0748	µg/L	EPA 608	0.0015	0.005			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	Aldrin	n/a	=	0.0719	µg/L	EPA 608	0.0015	0.005			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	Aldrin	n/a	=	72	%	EPA 608	-88	-88	42	122	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Aldrin	n/a	=	75	%	EPA 608	-88	-88	42	122	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Aldrin	n/a	=	69	%	EPA 608	-88	-88	42	122	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	Aldrin	n/a	=	4	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	Aldrin	n/a	=	0.0492	µg/L	EPA 608	0.0015	0.005			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	Aldrin	n/a	=	0.0558	µg/L	EPA 608	0.0015	0.005			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	Aldrin	n/a	=	56	%	EPA 608	-88	-88	42	122	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	Aldrin	n/a	=	49	%	EPA 608	-88	-88	42	122	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	Aldrin	n/a	=	13	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	alpha-BHC	n/a	=	0.0754	µg/L	EPA 608	0.0018	0.01			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	alpha-BHC	n/a	=	0.049	µg/L	EPA 608	0.0018	0.01			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	alpha-BHC	n/a	=	0.0764	µg/L	EPA 608	0.0018	0.01			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	alpha-BHC	n/a	=	76	%	EPA 608	-88	-88	37	134	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	alpha-BHC	n/a	=	49	%	EPA 608	-88	-88	37	134	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	alpha-BHC	n/a	=	75	%	EPA 608	-88	-88	37	134	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	alpha-BHC	n/a	=	1	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	alpha-BHC	n/a	=	0.0549	µg/L	EPA 608	0.0018	0.01			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	alpha-BHC	n/a	=	0.0611	µg/L	EPA 608	0.0018	0.01			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	alpha-BHC	n/a	=	61	%	EPA 608	-88	-88	37	134	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	alpha-BHC	n/a	=	55	%	EPA 608	-88	-88	37	134	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	alpha-BHC	n/a	=	11	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01			
2010/11-5	Lab	method blank	5/10/2011	Pesticide	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01			
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Atrazine	n/a	=	4.64	µg/L	EPA 525.2	0.034	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Atrazine	n/a	=	5.36	µg/L	EPA 525.2	0.034	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Atrazine	n/a	=	107	%	EPA 525.2	-88	-88	68	133	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Atrazine	n/a	=	93	%	EPA 525.2	-88	-88	68	133	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Atrazine	n/a	=	14	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Atrazine	n/a	=	4.54	µg/L	EPA 525.2	0.034	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Atrazine	n/a	=	5.4	µg/L	EPA 525.2	0.034	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Atrazine	n/a	=	108	%	EPA 525.2	-88	-88	68	133	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Atrazine	n/a	=	91	%	EPA 525.2	-88	-88	68	133	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Atrazine	n/a	=	17	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Azinphos methyl	n/a	=	0.116	µg/L	EPA 525.2	0.0055	0.01			GB
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Azinphos methyl	n/a	=	0.117	µg/L	EPA 525.2	0.0055	0.01			GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Azinphos methyl	n/a	=	235	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Azinphos methyl	n/a	=	233	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Azinphos methyl	n/a	=	0.9	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Azinphos methyl	n/a	=	0.0351	µg/L	EPA 525.2	0.0055	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Azinphos methyl	n/a	=	70	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			
2010/11-5	Lab	LCS	5/12/2011	Pesticide	Azinphos methyl	n/a	=	0.0474	µg/L	EPA 525.2	0.0055	0.01			
2010/11-5	Lab	LCS dup	5/12/2011	Pesticide	Azinphos methyl	n/a	=	0.0208	µg/L	EPA 525.2	0.0055	0.01			EUM
2010/11-5	Lab	LCS dup, rec	5/12/2011	Pesticide	Azinphos methyl	n/a	=	42	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-5	Lab	LCS, rec	5/12/2011	Pesticide	Azinphos methyl	n/a	=	95	%	EPA 525.2	-88	-88	50	150	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, RPD	5/12/2011	Pesticide	Azinphos methyl	n/a	=	78	%	EPA 525.2	-88	-88	0	25	IL
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Azinphos methyl	n/a	=	0.0571	µg/L	EPA 525.2	0.0055	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Azinphos methyl	n/a	=	114	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Azinphos methyl	n/a	=	0.0514	µg/L	EPA 525.2	0.0055	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Azinphos methyl	n/a	=	0.032	µg/L	EPA 525.2	0.0055	0.01			GB
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Azinphos methyl	n/a	=	21	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Azinphos methyl	n/a	=	59	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Azinphos methyl	n/a	=	46	%	EPA 525.2	-88	-88	0	25	GB,IL
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	Bentazon	n/a	=	11.6	µg/L	EPA 515.3	0.11	2			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	Bentazon	n/a	=	10.7	µg/L	EPA 515.3	0.11	2			GB
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	Bentazon	n/a	=	67	%	EPA 515.3	-88	-88	70	130	GB
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	Bentazon	n/a	=	72	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	Bentazon	n/a	=	8	%	EPA 515.3	-88	-88	0	30	GB
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	Bentazon	n/a	=	13.5	µg/L	EPA 515.3	0.11	2			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	Bentazon	n/a	=	13.2	µg/L	EPA 515.3	0.11	2			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	Bentazon	n/a	=	83	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	Bentazon	n/a	=	84	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	Bentazon	n/a	=	2	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	Bentazon	n/a	=	12.1	µg/L	EPA 515.3	0.11	2			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	Bentazon	n/a	=	76	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	Bentazon	n/a	=	13.6	µg/L	EPA 515.3	0.11	2			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	Bentazon	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	beta-BHC	n/a	=	0.0651	µg/L	EPA 608	0.0031	0.005			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	beta-BHC	n/a	=	0.0701	µg/L	EPA 608	0.0031	0.005			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	beta-BHC	n/a	=	0.0748	µg/L	EPA 608	0.0031	0.005			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	beta-BHC	n/a	=	75	%	EPA 608	-88	-88	14	147	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	beta-BHC	n/a	=	65	%	EPA 608	-88	-88	14	147	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	beta-BHC	n/a	=	70	%	EPA 608	-88	-88	14	147	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	beta-BHC	n/a	=	7	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	beta-BHC	n/a	=	0.0662	µg/L	EPA 608	0.0031	0.005			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	beta-BHC	n/a	=	0.0674	µg/L	EPA 608	0.0031	0.005			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	beta-BHC	n/a	=	67	%	EPA 608	-88	-88	14	147	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	beta-BHC	n/a	=	66	%	EPA 608	-88	-88	14	147	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	beta-BHC	n/a	=	2	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Bolstar	n/a	=	0.0506	µg/L	EPA 525.2	0.0046	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Bolstar	n/a	=	0.0508	µg/L	EPA 525.2	0.0046	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Bolstar	n/a	=	102	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Bolstar	n/a	=	101	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Bolstar	n/a	=	0.3	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Bolstar	n/a	=	0.0341	µg/L	EPA 525.2	0.0046	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Bolstar	n/a	=	68	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Bolstar	n/a	=	0.0418	µg/L	EPA 525.2	0.0046	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Bolstar	n/a	=	0.0433	µg/L	EPA 525.2	0.0046	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Bolstar	n/a	=	87	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Bolstar	n/a	=	84	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Bolstar	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Bolstar	n/a	=	0.0454	µg/L	EPA 525.2	0.0046	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Bolstar	n/a	=	91	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Bolstar	n/a	=	0.037	µg/L	EPA 525.2	0.0046	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Bolstar	n/a	=	0.0364	µg/L	EPA 525.2	0.0046	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Bolstar	n/a	=	73	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Bolstar	n/a	=	74	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Bolstar	n/a	=	2	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Bromacil	n/a	=	5.31	µg/L	EPA 525.2	0.038	0.5			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Bromacil	n/a	=	5.62	µg/L	EPA 525.2	0.038	0.5			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Bromacil	n/a	=	112	%	EPA 525.2	-88	-88	43	177	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Bromacil	n/a	=	106	%	EPA 525.2	-88	-88	43	177	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Bromacil	n/a	=	6	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	0.5			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Bromacil	n/a	=	10.8	µg/L	EPA 525.2	0.038	0.5			EUM
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Bromacil	n/a	=	9.58	µg/L	EPA 525.2	0.038	0.5			EUM
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Bromacil	n/a	=	192	%	EPA 525.2	-88	-88	43	177	EUM
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Bromacil	n/a	=	215	%	EPA 525.2	-88	-88	43	177	EUM
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Bromacil	n/a	=	12	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	0.5			
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Butachlor	n/a	=	4.59	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Butachlor	n/a	=	4.86	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Butachlor	n/a	=	97	%	EPA 525.2	-88	-88	55	178	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Butachlor	n/a	=	92	%	EPA 525.2	-88	-88	55	178	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Butachlor	n/a	=	6	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Butachlor	n/a	=	7.34	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Butachlor	n/a	=	7.26	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Butachlor	n/a	=	145	%	EPA 525.2	-88	-88	55	178	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Butachlor	n/a	=	147	%	EPA 525.2	-88	-88	55	178	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Butachlor	n/a	=	1	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Captan	n/a	=	5	µg/L	EPA 525.2	0.86	1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Captan	n/a	=	5.09	µg/L	EPA 525.2	0.86	1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Captan	n/a	=	102	%	EPA 525.2	-88	-88	20	215	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Captan	n/a	=	100	%	EPA 525.2	-88	-88	20	215	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Captan	n/a	=	2	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Captan	n/a	=	6.59	µg/L	EPA 525.2	0.86	1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Captan	n/a	=	6.91	µg/L	EPA 525.2	0.86	1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Captan	n/a	=	138	%	EPA 525.2	-88	-88	20	215	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Captan	n/a	=	132	%	EPA 525.2	-88	-88	20	215	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Captan	n/a	=	5	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1			
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1			
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1			
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Chloropropham	n/a	=	4.98	µg/L	EPA 525.2	0.01	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Chloropropham	n/a	=	5.34	µg/L	EPA 525.2	0.01	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Chloropropham	n/a	=	107	%	EPA 525.2	-88	-88	74	133	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Chloropropham	n/a	=	100	%	EPA 525.2	-88	-88	74	133	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Chloropropham	n/a	=	7	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Chloropropham	n/a	=	6.14	µg/L	EPA 525.2	0.01	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Chloropropham	n/a	=	6.53	µg/L	EPA 525.2	0.01	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Chloropropham	n/a	=	131	%	EPA 525.2	-88	-88	74	133	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Chloropropham	n/a	=	123	%	EPA 525.2	-88	-88	74	133	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Chloropropham	n/a	=	6	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Chlorpyrifos	n/a	=	0.0433	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Chlorpyrifos	n/a	=	0.0481	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Chlorpyrifos	n/a	=	96	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Chlorpyrifos	n/a	=	87	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Chlorpyrifos	n/a	=	11	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Chlorpyrifos	n/a	=	0.0445	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Chlorpyrifos	n/a	=	89	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Chlorpyrifos	n/a	=	0.0469	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Chlorpyrifos	n/a	=	0.0474	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Chlorpyrifos	n/a	=	95	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Chlorpyrifos	n/a	=	94	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Chlorpyrifos	n/a	=	1	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Chlorpyrifos	n/a	=	0.0441	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Chlorpyrifos	n/a	=	88	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Chlorpyrifos	n/a	=	0.0673	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Chlorpyrifos	n/a	=	0.0711	µg/L	EPA 525.2	0.0069	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Chlorpyrifos	n/a	=	142	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Chlorpyrifos	n/a	=	135	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Chlorpyrifos	n/a	=	6	%	EPA 525.2	-88	-88	0	25	
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Coumaphos	n/a	=	0.0644	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Coumaphos	n/a	=	0.0685	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Coumaphos	n/a	=	137	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Coumaphos	n/a	=	129	%	EPA 525.2	-88	-88	50	150	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Coumaphos	n/a	=	6	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Coumaphos	n/a	=	0.053	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Coumaphos	n/a	=	106	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Coumaphos	n/a	=	0.0564	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Coumaphos	n/a	=	0.0515	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Coumaphos	n/a	=	103	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Coumaphos	n/a	=	113	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Coumaphos	n/a	=	9	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Coumaphos	n/a	=	0.0538	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Coumaphos	n/a	=	108	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Coumaphos	n/a	=	0.0403	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Coumaphos	n/a	=	0.0491	µg/L	EPA 525.2	0.0051	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Coumaphos	n/a	=	98	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Coumaphos	n/a	=	81	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Coumaphos	n/a	=	20	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Cyanazine	n/a	=	4.5	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Cyanazine	n/a	=	5.46	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Cyanazine	n/a	=	109	%	EPA 525.2	-88	-88	69	131	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Cyanazine	n/a	=	90	%	EPA 525.2	-88	-88	69	131	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Cyanazine	n/a	=	19	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Cyanazine	n/a	=	7.23	µg/L	EPA 525.2	0.024	0.1			EUM
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Cyanazine	n/a	=	7.32	µg/L	EPA 525.2	0.024	0.1			EUM
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Cyanazine	n/a	=	146	%	EPA 525.2	-88	-88	69	131	EUM
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Cyanazine	n/a	=	145	%	EPA 525.2	-88	-88	69	131	EUM
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Cyanazine	n/a	=	1	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	Dalapon	n/a	=	7.33	µg/L	EPA 515.3	0.1	0.4			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	Dalapon	n/a	=	7.19	µg/L	EPA 515.3	0.1	0.4			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	Dalapon	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	Dalapon	n/a	=	92	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	Dalapon	n/a	=	2	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	Dalapon	n/a	=	7.29	µg/L	EPA 515.3	0.1	0.4			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	Dalapon	n/a	=	7.3	µg/L	EPA 515.3	0.1	0.4			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	Dalapon	n/a	=	91	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	Dalapon	n/a	=	91	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	Dalapon	n/a	=	0.2	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	Dalapon	n/a	=	7.96	µg/L	EPA 515.3	0.1	0.4			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	Dalapon	n/a	=	99	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	Dalapon	n/a	=	6.85	µg/L	EPA 515.3	0.1	0.4			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	Dalapon	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	DCPA (Dacthal)	n/a	=	2.83	µg/L	EPA 515.3	0.07	0.1			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	DCPA (Dacthal)	n/a	=	2.72	µg/L	EPA 515.3	0.07	0.1			GB
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	DCPA (Dacthal)	n/a	=	68	%	EPA 515.3	-88	-88	70	130	GB
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	DCPA (Dacthal)	n/a	=	71	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	DCPA (Dacthal)	n/a	=	4	%	EPA 515.3	-88	-88	0	30	GB
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	DCPA (Dacthal)	n/a	=	2.92	µg/L	EPA 515.3	0.07	0.1			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	DCPA (Dacthal)	n/a	=	2.85	µg/L	EPA 515.3	0.07	0.1			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	DCPA (Dacthal)	n/a	=	71	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	DCPA (Dacthal)	n/a	=	73	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	DCPA (Dacthal)	n/a	=	2	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	DCPA (Dacthal)	n/a	=	3.12	µg/L	EPA 515.3	0.07	0.1			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	DCPA (Dacthal)	n/a	=	78	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	DCPA (Dacthal)	n/a	=	2.94	µg/L	EPA 515.3	0.07	0.1			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	DCPA (Dacthal)	n/a	=	74	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	delta-BHC	n/a	=	0.0782	µg/L	EPA 608	0.0025	0.005			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	delta-BHC	n/a	=	0.0813	µg/L	EPA 608	0.0025	0.005			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	delta-BHC	n/a	=	0.0797	µg/L	EPA 608	0.0025	0.005			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	delta-BHC	n/a	=	80	%	EPA 608	-88	-88	19	140	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	delta-BHC	n/a	=	81	%	EPA 608	-88	-88	19	140	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	delta-BHC	n/a	=	78	%	EPA 608	-88	-88	19	140	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	delta-BHC	n/a	=	2	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	delta-BHC	n/a	=	0.0646	µg/L	EPA 608	0.0025	0.005			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	delta-BHC	n/a	=	0.0716	µg/L	EPA 608	0.0025	0.005			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	delta-BHC	n/a	=	72	%	EPA 608	-88	-88	19	140	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	delta-BHC	n/a	=	65	%	EPA 608	-88	-88	19	140	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	delta-BHC	n/a	=	10	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Demeton-O	n/a	=	0.048	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Demeton-O	n/a	=	0.0448	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Demeton-O	n/a	=	90	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Demeton-O	n/a	=	96	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Demeton-O	n/a	=	7	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Demeton-O	n/a	=	0.044	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Demeton-O	n/a	=	88	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Demeton-O	n/a	=	0.0532	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Demeton-O	n/a	=	0.0602	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Demeton-O	n/a	=	120	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Demeton-O	n/a	=	106	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Demeton-O	n/a	=	12	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Demeton-O	n/a	=	0.0448	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Demeton-O	n/a	=	90	%	EPA 525.2	-88	-88	50	150	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Demeton-O	n/a	=	0.0475	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Demeton-O	n/a	=	0.0386	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Demeton-O	n/a	=	77	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Demeton-O	n/a	=	95	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Demeton-O	n/a	=	21	%	EPA 525.2	-88	-88	0	25	
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Demeton-S	n/a	=	0.048	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Demeton-S	n/a	=	0.0448	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Demeton-S	n/a	=	90	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Demeton-S	n/a	=	96	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Demeton-S	n/a	=	7	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Demeton-S	n/a	=	0.044	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Demeton-S	n/a	=	88	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Demeton-S	n/a	=	0.0532	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Demeton-S	n/a	=	0.0432	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Demeton-S	n/a	=	86	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Demeton-S	n/a	=	106	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Demeton-S	n/a	=	21	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Demeton-S	n/a	=	0.0448	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Demeton-S	n/a	=	90	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Demeton-S	n/a	=	0.079	µg/L	EPA 525.2	0.01	0.01			GB
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Demeton-S	n/a	=	0.0386	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Demeton-S	n/a	=	77	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Demeton-S	n/a	=	158	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Demeton-S	n/a	=	69	%	EPA 525.2	-88	-88	0	25	IL
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Diazinon	n/a	=	0.0476	µg/L	EPA 525.2	0.0052	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Diazinon	n/a	=	0.0497	µg/L	EPA 525.2	0.0052	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Diazinon	n/a	=	99	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Diazinon	n/a	=	95	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Diazinon	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Diazinon	n/a	=	0.0594	µg/L	EPA 525.2	0.0052	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Diazinon	n/a	=	119	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Diazinon	n/a	=	0.0495	µg/L	EPA 525.2	0.0052	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Diazinon	n/a	=	0.0483	µg/L	EPA 525.2	0.0052	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Diazinon	n/a	=	97	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Diazinon	n/a	=	99	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Diazinon	n/a	=	3	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Diazinon	n/a	=	0.0552	µg/L	EPA 525.2	0.0052	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Diazinon	n/a	=	110	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Diazinon	n/a	=	0.0365	µg/L	EPA 525.2	0.0052	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Diazinon	n/a	=	0.0349	µg/L	EPA 525.2	0.0052	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Diazinon	n/a	=	70	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Diazinon	n/a	=	73	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Diazinon	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	Dicamba	n/a	=	6.85	µg/L	EPA 515.3	0.12	0.6			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	Dicamba	n/a	=	6.8	µg/L	EPA 515.3	0.12	0.6			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	Dicamba	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	Dicamba	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	Dicamba	n/a	=	0.8	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	Dicamba	n/a	=	6.76	µg/L	EPA 515.3	0.12	0.6			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	Dicamba	n/a	=	6.72	µg/L	EPA 515.3	0.12	0.6			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	Dicamba	n/a	=	84	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	Dicamba	n/a	=	84	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	Dicamba	n/a	=	0.5	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	Dicamba	n/a	=	7.68	µg/L	EPA 515.3	0.12	0.6			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	Dicamba	n/a	=	96	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	Dicamba	n/a	=	7.14	µg/L	EPA 515.3	0.12	0.6			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	Dicamba	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6			
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	Dichlorprop	n/a	=	7.14	µg/L	EPA 515.3	0.08	0.3			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	Dichlorprop	n/a	=	7.04	µg/L	EPA 515.3	0.08	0.3			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	Dichlorprop	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	Dichlorprop	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	Dichlorprop	n/a	=	2	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	Dichlorprop	n/a	=	6.94	µg/L	EPA 515.3	0.08	0.3			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	Dichlorprop	n/a	=	6.78	µg/L	EPA 515.3	0.08	0.3			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	Dichlorprop	n/a	=	85	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	Dichlorprop	n/a	=	87	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	Dichlorprop	n/a	=	2	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	Dichlorprop	n/a	=	7.85	µg/L	EPA 515.3	0.08	0.3			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	Dichlorprop	n/a	=	98	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	Dichlorprop	n/a	=	7.2	µg/L	EPA 515.3	0.08	0.3			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	Dichlorprop	n/a	=	90	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Dichlorvos	n/a	=	0.04	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Dichlorvos	n/a	=	0.0424	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Dichlorvos	n/a	=	85	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Dichlorvos	n/a	=	80	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Dichlorvos	n/a	=	6	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Dichlorvos	n/a	=	0.041	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Dichlorvos	n/a	=	82	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Dichlorvos	n/a	=	0.0416	µg/L	EPA 525.2	0.0029	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Dichlorvos	n/a	=	0.0327	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Dichlorvos	n/a	=	65	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Dichlorvos	n/a	=	83	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Dichlorvos	n/a	=	24	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Dichlorvos	n/a	=	0.0364	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Dichlorvos	n/a	=	73	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Dichlorvos	n/a	=	0.0442	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Dichlorvos	n/a	=	0.0445	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Dichlorvos	n/a	=	89	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Dichlorvos	n/a	=	88	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Dichlorvos	n/a	=	0.6	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Dieldrin	n/a	=	0.0812	µg/L	EPA 608	0.0021	0.01			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Dieldrin	n/a	=	0.075	µg/L	EPA 608	0.0021	0.01			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	Dieldrin	n/a	=	0.0779	µg/L	EPA 608	0.0021	0.01			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	Dieldrin	n/a	=	78	%	EPA 608	-88	-88	36	146	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Dieldrin	n/a	=	81	%	EPA 608	-88	-88	36	146	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Dieldrin	n/a	=	75	%	EPA 608	-88	-88	36	146	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	Dieldrin	n/a	=	4	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	Dieldrin	n/a	=	0.0679	µg/L	EPA 608	0.0021	0.01			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	Dieldrin	n/a	=	0.0738	µg/L	EPA 608	0.0021	0.01			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	Dieldrin	n/a	=	74	%	EPA 608	-88	-88	36	146	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	Dieldrin	n/a	=	68	%	EPA 608	-88	-88	36	146	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	Dieldrin	n/a	=	8	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Dimethoate	n/a	=	0.11	µg/L	EPA 525.2	0.0062	0.01			GB
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Dimethoate	n/a	=	0.106	µg/L	EPA 525.2	0.0062	0.01			GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Dimethoate	n/a	=	211	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Dimethoate	n/a	=	220	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Dimethoate	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Dimethoate	n/a	=	0.0408	µg/L	EPA 525.2	0.0062	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Dimethoate	n/a	=	82	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Dimethoate	n/a	=	0.0428	µg/L	EPA 525.2	0.0062	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Dimethoate	n/a	=	0.0235	µg/L	EPA 525.2	0.0062	0.01			EUM
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Dimethoate	n/a	=	47	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Dimethoate	n/a	=	86	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Dimethoate	n/a	=	58	%	EPA 525.2	-88	-88	0	25	IL
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Dimethoate	n/a	=	0.0555	µg/L	EPA 525.2	0.0062	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Dimethoate	n/a	=	111	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Dimethoate	n/a	=	0.0385	µg/L	EPA 525.2	0.0062	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Dimethoate	n/a	=	0.0478	µg/L	EPA 525.2	0.0062	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Dimethoate	n/a	=	96	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Dimethoate	n/a	=	77	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Dimethoate	n/a	=	22	%	EPA 525.2	-88	-88	0	25	
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	Dinoseb	n/a	=	3.54	µg/L	EPA 515.3	0.14	0.4			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	Dinoseb	n/a	=	2.97	µg/L	EPA 515.3	0.14	0.4			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	Dinoseb	n/a	=	74	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	Dinoseb	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	Dinoseb	n/a	=	17	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	Dinoseb	n/a	=	3.52	µg/L	EPA 515.3	0.14	0.4			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	Dinoseb	n/a	=	3.44	µg/L	EPA 515.3	0.14	0.4			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	Dinoseb	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	Dinoseb	n/a	=	88	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	Dinoseb	n/a	=	2	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	Dinoseb	n/a	=	3.98	µg/L	EPA 515.3	0.14	0.4			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	Dinoseb	n/a	=	100	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	Dinoseb	n/a	=	3.28	µg/L	EPA 515.3	0.14	0.4			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	Dinoseb	n/a	=	82	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4			
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Diphenamid	n/a	=	4.97	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Diphenamid	n/a	=	5.78	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Diphenamid	n/a	=	116	%	EPA 525.2	-88	-88	82	144	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Diphenamid	n/a	=	99	%	EPA 525.2	-88	-88	82	144	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Diphenamid	n/a	=	15	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Diphenamid	n/a	=	5.21	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Diphenamid	n/a	=	5.54	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Diphenamid	n/a	=	111	%	EPA 525.2	-88	-88	82	144	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Diphenamid	n/a	=	104	%	EPA 525.2	-88	-88	82	144	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Diphenamid	n/a	=	6	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Disulfoton	n/a	=	0.0449	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Disulfoton	n/a	=	0.0467	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Disulfoton	n/a	=	93	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Disulfoton	n/a	=	90	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Disulfoton	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Disulfoton	n/a	=	0.0311	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Disulfoton	n/a	=	62	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Disulfoton	n/a	=	0.0378	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Disulfoton	n/a	=	0.0406	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Disulfoton	n/a	=	81	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Disulfoton	n/a	=	76	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Disulfoton	n/a	=	7	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Disulfoton	n/a	=	0.0403	µg/L	EPA 525.2	0.01	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Disulfoton	n/a	=	81	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Disulfoton	n/a	=	0.0471	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Disulfoton	n/a	=	0.0454	µg/L	EPA 525.2	0.01	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Disulfoton	n/a	=	91	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Disulfoton	n/a	=	94	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Disulfoton	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Endosulfan I	n/a	=	0.0563	µg/L	EPA 608	0.0017	0.02			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Endosulfan I	n/a	=	0.0718	µg/L	EPA 608	0.0017	0.02			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	Endosulfan I	n/a	=	0.0704	µg/L	EPA 608	0.0017	0.02			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	Endosulfan I	n/a	=	70	%	EPA 608	-88	-88	45	153	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Endosulfan I	n/a	=	56	%	EPA 608	-88	-88	45	153	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Endosulfan I	n/a	=	72	%	EPA 608	-88	-88	45	153	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	Endosulfan I	n/a	=	2	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	Endosulfan I	n/a	=	0.0569	µg/L	EPA 608	0.0017	0.02			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	Endosulfan I	n/a	=	0.0628	µg/L	EPA 608	0.0017	0.02			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	Endosulfan I	n/a	=	63	%	EPA 608	-88	-88	45	153	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	Endosulfan I	n/a	=	57	%	EPA 608	-88	-88	45	153	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	Endosulfan I	n/a	=	10	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Endosulfan II	n/a	=	0.0918	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Endosulfan II	n/a	=	0.0768	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	Endosulfan II	n/a	=	0.0664	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	Endosulfan II	n/a	=	66	%	EPA 608	-88	-88	2	202	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Endosulfan II	n/a	=	77	%	EPA 608	-88	-88	2	202	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Endosulfan II	n/a	=	92	%	EPA 608	-88	-88	2	202	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	Endosulfan II	n/a	=	15	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	Endosulfan II	n/a	=	0.0657	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	Endosulfan II	n/a	=	0.0722	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	Endosulfan II	n/a	=	72	%	EPA 608	-88	-88	2	202	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	Endosulfan II	n/a	=	66	%	EPA 608	-88	-88	2	202	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	Endosulfan II	n/a	=	9	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Endosulfan sulfate	n/a	=	0.175	µg/L	EPA 608	0.008	0.05			EUM
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Endosulfan sulfate	n/a	=	0.071	µg/L	EPA 608	0.008	0.05			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	Endosulfan sulfate	n/a	=	0.0825	µg/L	EPA 608	0.008	0.05			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	Endosulfan sulfate	n/a	=	83	%	EPA 608	-88	-88	26	144	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Endosulfan sulfate	n/a	=	175	%	EPA 608	-88	-88	26	144	EUM
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Endosulfan sulfate	n/a	=	71	%	EPA 608	-88	-88	26	144	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	Endosulfan sulfate	n/a	=	15	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	Endosulfan sulfate	n/a	=	0.09	µg/L	EPA 608	0.008	0.05			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	Endosulfan sulfate	n/a	=	0.0987	µg/L	EPA 608	0.008	0.05			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	Endosulfan sulfate	n/a	=	99	%	EPA 608	-88	-88	26	144	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	Endosulfan sulfate	n/a	=	90	%	EPA 608	-88	-88	26	144	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	Endosulfan sulfate	n/a	=	9	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Endrin	n/a	=	0.0624	µg/L	EPA 608	0.0028	0.01			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Endrin	n/a	=	0.0785	µg/L	EPA 608	0.0028	0.01			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	Endrin	n/a	=	0.079	µg/L	EPA 608	0.0028	0.01			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	Endrin	n/a	=	79	%	EPA 608	-88	-88	30	147	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Endrin	n/a	=	79	%	EPA 608	-88	-88	30	147	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Endrin	n/a	=	62	%	EPA 608	-88	-88	30	147	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	Endrin	n/a	=	0.6	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	Endrin	n/a	=	0.0966	µg/L	EPA 608	0.0028	0.01			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	Endrin	n/a	=	0.107	µg/L	EPA 608	0.0028	0.01			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	Endrin	n/a	=	107	%	EPA 608	-88	-88	30	147	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	Endrin	n/a	=	97	%	EPA 608	-88	-88	30	147	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	Endrin	n/a	=	10	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Endrin aldehyde	n/a	=	0.0348	µg/L	EPA 608	0.003	0.01			EUM
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Endrin aldehyde	n/a	=	0.0681	µg/L	EPA 608	0.003	0.01			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	Endrin aldehyde	n/a	=	0.0695	µg/L	EPA 608	0.003	0.01			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	Endrin aldehyde	n/a	=	69	%	EPA 608	-88	-88	41	203	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Endrin aldehyde	n/a	=	35	%	EPA 608	-88	-88	41	203	EUM
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Endrin aldehyde	n/a	=	68	%	EPA 608	-88	-88	41	203	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	Endrin aldehyde	n/a	=	2	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	Endrin aldehyde	n/a	=	0.0548	µg/L	EPA 608	0.003	0.01			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	Endrin aldehyde	n/a	=	0.0522	µg/L	EPA 608	0.003	0.01			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	Endrin aldehyde	n/a	=	52	%	EPA 608	-88	-88	41	203	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	Endrin aldehyde	n/a	=	55	%	EPA 608	-88	-88	41	203	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	Endrin aldehyde	n/a	=	5	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01			
2010/11-5	Lab	LCS	4/22/2011	Pesticide	EPTC	n/a	=	4.61	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	EPTC	n/a	=	5.02	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	EPTC	n/a	=	100	%	EPA 525.2	-88	-88	75	110	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	EPTC	n/a	=	92	%	EPA 525.2	-88	-88	75	110	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	EPTC	n/a	=	9	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	EPTC	n/a	=	4.31	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	EPTC	n/a	=	4.87	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	EPTC	n/a	=	97	%	EPA 525.2	-88	-88	75	110	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	EPTC	n/a	=	86	%	EPA 525.2	-88	-88	75	110	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	EPTC	n/a	=	12	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.1			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Ethoprop	n/a	=	0.0476	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Ethoprop	n/a	=	0.0489	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Ethoprop	n/a	=	98	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Ethoprop	n/a	=	95	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Ethoprop	n/a	=	3	%	EPA 525.2	-88	-88	0	25	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Ethoprop	n/a	=	0.0423	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Ethoprop	n/a	=	85	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Ethoprop	n/a	=	0.0488	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Ethoprop	n/a	=	0.0493	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Ethoprop	n/a	=	99	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Ethoprop	n/a	=	98	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Ethoprop	n/a	=	1	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Ethoprop	n/a	=	0.0421	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Ethoprop	n/a	=	84	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Ethoprop	n/a	=	0.0434	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Ethoprop	n/a	=	0.0437	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Ethoprop	n/a	=	87	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Ethoprop	n/a	=	87	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Ethoprop	n/a	=	0.7	%	EPA 525.2	-88	-88	0	25	
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Ethyl parathion	n/a	=	0.082	µg/L	EPA 525.2	0.0054	0.01			GB
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Ethyl parathion	n/a	=	0.0836	µg/L	EPA 525.2	0.0054	0.01			GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Ethyl parathion	n/a	=	167	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Ethyl parathion	n/a	=	164	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Ethyl parathion	n/a	=	2	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Ethyl parathion	n/a	=	0.0569	µg/L	EPA 525.2	0.0054	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Ethyl parathion	n/a	=	114	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Ethyl parathion	n/a	=	0.0825	µg/L	EPA 525.2	0.0054	0.01			EUM
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Ethyl parathion	n/a	=	0.0861	µg/L	EPA 525.2	0.0054	0.01			EUM
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Ethyl parathion	n/a	=	172	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Ethyl parathion	n/a	=	165	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Ethyl parathion	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Ethyl parathion	n/a	=	0.063	µg/L	EPA 525.2	0.0054	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Ethyl parathion	n/a	=	126	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Ethyl parathion	n/a	=	0.0654	µg/L	EPA 525.2	0.0054	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Ethyl parathion	n/a	=	0.0661	µg/L	EPA 525.2	0.0054	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Ethyl parathion	n/a	=	132	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Ethyl parathion	n/a	=	131	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Ethyl parathion	n/a	=	1	%	EPA 525.2	-88	-88	0	25	
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Fensulfothion	n/a	=	0.113	µg/L	EPA 525.2	0.0029	0.01			GB
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Fensulfothion	n/a	=	0.109	µg/L	EPA 525.2	0.0029	0.01			GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Fensulfothion	n/a	=	217	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Fensulfothion	n/a	=	226	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Fensulfothion	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Fensulfothion	n/a	=	0.0359	µg/L	EPA 525.2	0.0029	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Fensulfothion	n/a	=	72	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Fensulfothion	n/a	=	0.0778	µg/L	EPA 525.2	0.0029	0.01			EUM
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Fensulfothion	n/a	=	0.0643	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Fensulfothion	n/a	=	129	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Fensulfothion	n/a	=	156	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Fensulfothion	n/a	=	19	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Fensulfothion	n/a	=	0.0704	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Fensulfothion	n/a	=	141	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Fensulfothion	n/a	=	0.0588	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Fensulfothion	n/a	=	0.0694	µg/L	EPA 525.2	0.0029	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Fensulfothion	n/a	=	139	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Fensulfothion	n/a	=	118	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Fensulfothion	n/a	=	17	%	EPA 525.2	-88	-88	0	25	
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Fenthion	n/a	=	0.0356	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Fenthion	n/a	=	0.0352	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Fenthion	n/a	=	70	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Fenthion	n/a	=	71	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Fenthion	n/a	=	1	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Fenthion	n/a	=	0.0283	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Fenthion	n/a	=	57	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Fenthion	n/a	=	0.029	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Fenthion	n/a	=	0.0279	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Fenthion	n/a	=	56	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Fenthion	n/a	=	58	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Fenthion	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Fenthion	n/a	=	0.0322	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Fenthion	n/a	=	64	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Fenthion	n/a	=	0.0304	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Fenthion	n/a	=	0.0307	µg/L	EPA 525.2	0.0038	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Fenthion	n/a	=	61	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Fenthion	n/a	=	61	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Fenthion	n/a	=	1	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	4/29/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0534	µg/L	EPA 608	0.0021	0.02			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0765	µg/L	EPA 608	0.0021	0.02			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0759	µg/L	EPA 608	0.0021	0.02			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	76	%	EPA 608	-88	-88	32	127	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	76	%	EPA 608	-88	-88	32	127	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	53	%	EPA 608	-88	-88	32	127	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	0.8	%	EPA 608	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0578	µg/L	EPA 608	0.0021	0.02			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	0.0642	µg/L	EPA 608	0.0021	0.02			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	64	%	EPA 608	-88	-88	32	127	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	58	%	EPA 608	-88	-88	32	127	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	gamma-BHC (Lindane)	n/a	=	11	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02			
2010/11-5	Lab	method blank	5/10/2011	Pesticide	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01			
2010/11-5	000NONPJ	matrix spike	4/21/2011	Pesticide	Glyphosate	n/a	=	25.3	µg/L	EPA 547	1.8	5			
2010/11-5	000NONPJ	matrix spike dup	4/21/2011	Pesticide	Glyphosate	n/a	=	24.8	µg/L	EPA 547	1.8	5			
2010/11-5	000NONPJ	matrix spike dup, rec	4/21/2011	Pesticide	Glyphosate	n/a	=	99	%	EPA 547	-88	-88	68	134	
2010/11-5	000NONPJ	matrix spike, rec	4/21/2011	Pesticide	Glyphosate	n/a	=	101	%	EPA 547	-88	-88	68	134	
2010/11-5	000NONPJ	matrix spike, RPD	4/21/2011	Pesticide	Glyphosate	n/a	=	2	%	EPA 547	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/7/2011	Pesticide	Glyphosate	n/a	=	30.9	µg/L	EPA 547	1.8	5			
2010/11-5	000NONPJ	matrix spike	5/7/2011	Pesticide	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5			GB
2010/11-5	000NONPJ	matrix spike dup	5/7/2011	Pesticide	Glyphosate	n/a	=	30	µg/L	EPA 547	1.8	5			
2010/11-5	000NONPJ	matrix spike dup	5/7/2011	Pesticide	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5			GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/7/2011	Pesticide	Glyphosate	n/a	=	120	%	EPA 547	-88	-88	68	134	
2010/11-5	000NONPJ	matrix spike dup, rec	5/7/2011	Pesticide	Glyphosate	n/a	=	0	%	EPA 547	-88	-88	68	134	GB
2010/11-5	000NONPJ	matrix spike, rec	5/7/2011	Pesticide	Glyphosate	n/a	=	124	%	EPA 547	-88	-88	68	134	
2010/11-5	000NONPJ	matrix spike, rec	5/7/2011	Pesticide	Glyphosate	n/a	=	0	%	EPA 547	-88	-88	68	134	GB
2010/11-5	000NONPJ	matrix spike, RPD	5/7/2011	Pesticide	Glyphosate	n/a	=	0	%	EPA 547	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike, RPD	5/7/2011	Pesticide	Glyphosate	n/a	=	3	%	EPA 547	-88	-88	0	30	
2010/11-5	Lab	LCS	4/21/2011	Pesticide	Glyphosate	n/a	=	25.6	µg/L	EPA 547	1.8	5			
2010/11-5	Lab	LCS, rec	4/21/2011	Pesticide	Glyphosate	n/a	=	102	%	EPA 547	-88	-88	71	137	
2010/11-5	Lab	method blank	4/21/2011	Pesticide	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Glyphosate	n/a	=	25	µg/L	EPA 547	1.8	5			
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Glyphosate	n/a	=	100	%	EPA 547	-88	-88	71	137	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5			
2010/11-5	Lab	LCS	5/7/2011	Pesticide	Glyphosate	n/a	=	27.2	µg/L	EPA 547	1.8	5			
2010/11-5	Lab	LCS, rec	5/7/2011	Pesticide	Glyphosate	n/a	=	109	%	EPA 547	-88	-88	71	137	
2010/11-5	Lab	method blank	5/7/2011	Pesticide	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5			
2010/11-5	ME-CC	matrix spike	4/29/2011	Pesticide	Glyphosate	n/a	=	23.9	µg/L	EPA 547	1.8	5			
2010/11-5	ME-CC	matrix spike dup	4/29/2011	Pesticide	Glyphosate	n/a	=	23.9	µg/L	EPA 547	1.8	5			
2010/11-5	ME-CC	matrix spike dup, rec	4/29/2011	Pesticide	Glyphosate	n/a	=	96	%	EPA 547	-88	-88	68	134	
2010/11-5	ME-CC	matrix spike, rec	4/29/2011	Pesticide	Glyphosate	n/a	=	95	%	EPA 547	-88	-88	68	134	
2010/11-5	ME-CC	matrix spike, RPD	4/29/2011	Pesticide	Glyphosate	n/a	=	0.1	%	EPA 547	-88	-88	0	30	
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Heptachlor	n/a	=	0.0691	µg/L	EPA 608	0.0017	0.01			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Heptachlor	n/a	=	0.084	µg/L	EPA 608	0.0017	0.01			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	Heptachlor	n/a	=	0.0817	µg/L	EPA 608	0.0017	0.01			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	Heptachlor	n/a	=	82	%	EPA 608	-88	-88	34	111	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Heptachlor	n/a	=	69	%	EPA 608	-88	-88	34	111	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Heptachlor	n/a	=	84	%	EPA 608	-88	-88	34	111	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	Heptachlor	n/a	=	3	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	Heptachlor	n/a	=	0.0649	µg/L	EPA 608	0.0017	0.01			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	Heptachlor	n/a	=	0.0733	µg/L	EPA 608	0.0017	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	Heptachlor	n/a	=	73	%	EPA 608	-88	-88	34	111	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	Heptachlor	n/a	=	65	%	EPA 608	-88	-88	34	111	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	Heptachlor	n/a	=	12	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Heptachlor epoxide	n/a	=	0.075	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS	4/29/2011	Pesticide	Heptachlor epoxide	n/a	=	0.0491	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS dup	4/29/2011	Pesticide	Heptachlor epoxide	n/a	=	0.0722	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS dup, rec	4/29/2011	Pesticide	Heptachlor epoxide	n/a	=	72	%	EPA 608	-88	-88	37	142	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Heptachlor epoxide	n/a	=	49	%	EPA 608	-88	-88	37	142	
2010/11-5	Lab	LCS, rec	4/29/2011	Pesticide	Heptachlor epoxide	n/a	=	75	%	EPA 608	-88	-88	37	142	
2010/11-5	Lab	LCS, RPD	4/29/2011	Pesticide	Heptachlor epoxide	n/a	=	4	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS	5/10/2011	Pesticide	Heptachlor epoxide	n/a	=	0.0575	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS dup	5/10/2011	Pesticide	Heptachlor epoxide	n/a	=	0.0633	µg/L	EPA 608	0.0019	0.01			
2010/11-5	Lab	LCS dup, rec	5/10/2011	Pesticide	Heptachlor epoxide	n/a	=	63	%	EPA 608	-88	-88	37	142	
2010/11-5	Lab	LCS, rec	5/10/2011	Pesticide	Heptachlor epoxide	n/a	=	58	%	EPA 608	-88	-88	37	142	
2010/11-5	Lab	LCS, RPD	5/10/2011	Pesticide	Heptachlor epoxide	n/a	=	10	%	EPA 608	-88	-88	0	30	
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Malathion	n/a	=	0.0643	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Malathion	n/a	=	0.0657	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Malathion	n/a	=	131	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Malathion	n/a	=	129	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Malathion	n/a	=	2	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Malathion	n/a	=	0.0465	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Malathion	n/a	=	93	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Malathion	n/a	=	0.0592	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Malathion	n/a	=	0.0561	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Malathion	n/a	=	112	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Malathion	n/a	=	118	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Malathion	n/a	=	5	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Malathion	n/a	=	0.0543	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Malathion	n/a	=	109	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Malathion	n/a	=	0.0476	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Malathion	n/a	=	0.0501	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Malathion	n/a	=	100	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Malathion	n/a	=	95	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Malathion	n/a	=	5	%	EPA 525.2	-88	-88	0	25	
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Merphos	n/a	=	0.107	µg/L	EPA 525.2	0.0058	0.01			GB
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Merphos	n/a	=	0.14	µg/L	EPA 525.2	0.0058	0.01			GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Merphos	n/a	=	280	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Merphos	n/a	=	215	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Merphos	n/a	=	27	%	EPA 525.2	-88	-88	0	25	IL
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Merphos	n/a	=	0.0837	µg/L	EPA 525.2	0.0058	0.01			EUM

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Merphos	n/a	=	167	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Merphos	n/a	=	0.0916	µg/L	EPA 525.2	0.0058	0.01			EUM
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Merphos	n/a	=	0.0969	µg/L	EPA 525.2	0.0058	0.01			EUM
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Merphos	n/a	=	194	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Merphos	n/a	=	183	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Merphos	n/a	=	6	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Merphos	n/a	=	0.0928	µg/L	EPA 525.2	0.0058	0.01			EUM
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Merphos	n/a	=	186	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Merphos	n/a	=	0.0926	µg/L	EPA 525.2	0.0058	0.01			GB
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Merphos	n/a	=	0.0898	µg/L	EPA 525.2	0.0058	0.01			GB
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Merphos	n/a	=	180	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Merphos	n/a	=	185	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Merphos	n/a	=	3	%	EPA 525.2	-88	-88	0	25	GB
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02			
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Methyl parathion	n/a	=	0.117	µg/L	EPA 525.2	0.0063	0.01			GB
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Methyl parathion	n/a	=	0.113	µg/L	EPA 525.2	0.0063	0.01			GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Methyl parathion	n/a	=	226	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Methyl parathion	n/a	=	234	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Methyl parathion	n/a	=	3	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Methyl parathion	n/a	=	0.0512	µg/L	EPA 525.2	0.0063	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Methyl parathion	n/a	=	102	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Methyl parathion	n/a	=	0.0628	µg/L	EPA 525.2	0.0063	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Methyl parathion	n/a	=	0.0504	µg/L	EPA 525.2	0.0063	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Methyl parathion	n/a	=	101	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Methyl parathion	n/a	=	126	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Methyl parathion	n/a	=	22	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Methyl parathion	n/a	=	0.063	µg/L	EPA 525.2	0.0063	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Methyl parathion	n/a	=	126	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Methyl parathion	n/a	=	0.0609	µg/L	EPA 525.2	0.0063	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Methyl parathion	n/a	=	0.0634	µg/L	EPA 525.2	0.0063	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Methyl parathion	n/a	=	127	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Methyl parathion	n/a	=	122	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Methyl parathion	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Metolachlor	n/a	=	4.67	µg/L	EPA 525.2	0.012	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Metolachlor	n/a	=	5.09	µg/L	EPA 525.2	0.012	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Metolachlor	n/a	=	102	%	EPA 525.2	-88	-88	55	170	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Metolachlor	n/a	=	93	%	EPA 525.2	-88	-88	55	170	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Metolachlor	n/a	=	9	%	EPA 525.2	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Metolachlor	n/a	=	6.94	µg/L	EPA 525.2	0.012	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Metolachlor	n/a	=	6.65	µg/L	EPA 525.2	0.012	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Metolachlor	n/a	=	133	%	EPA 525.2	-88	-88	55	170	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Metolachlor	n/a	=	139	%	EPA 525.2	-88	-88	55	170	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Metolachlor	n/a	=	4	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1			
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Metribuzin	n/a	=	4.77	µg/L	EPA 525.2	0.015	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Metribuzin	n/a	=	5.12	µg/L	EPA 525.2	0.015	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Metribuzin	n/a	=	102	%	EPA 525.2	-88	-88	44	149	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Metribuzin	n/a	=	95	%	EPA 525.2	-88	-88	44	149	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Metribuzin	n/a	=	7	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Metribuzin	n/a	=	7.81	µg/L	EPA 525.2	0.015	0.1			EUM
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Metribuzin	n/a	=	7.36	µg/L	EPA 525.2	0.015	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Metribuzin	n/a	=	147	%	EPA 525.2	-88	-88	44	149	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Metribuzin	n/a	=	156	%	EPA 525.2	-88	-88	44	149	EUM
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Metribuzin	n/a	=	6	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Mevinphos	n/a	=	0.0711	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Mevinphos	n/a	=	0.0728	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Mevinphos	n/a	=	146	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Mevinphos	n/a	=	142	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Mevinphos	n/a	=	2	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Mevinphos	n/a	=	0.0442	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Mevinphos	n/a	=	88	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Mevinphos	n/a	=	0.0612	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Mevinphos	n/a	=	0.0484	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Mevinphos	n/a	=	97	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Mevinphos	n/a	=	122	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Mevinphos	n/a	=	23	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Mevinphos	n/a	=	0.0512	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Mevinphos	n/a	=	102	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Mevinphos	n/a	=	0.0555	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Mevinphos	n/a	=	0.0575	µg/L	EPA 525.2	0.0042	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Mevinphos	n/a	=	115	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Mevinphos	n/a	=	111	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Mevinphos	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Molinate	n/a	=	4.59	µg/L	EPA 525.2	0.039	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Molinate	n/a	=	5.18	µg/L	EPA 525.2	0.039	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Molinate	n/a	=	104	%	EPA 525.2	-88	-88	76	116	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Molinate	n/a	=	92	%	EPA 525.2	-88	-88	76	116	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Molinate	n/a	=	12	%	EPA 525.2	-88	-88	0	30	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Molinate	n/a	=	4.55	µg/L	EPA 525.2	0.039	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Molinate	n/a	=	5.11	µg/L	EPA 525.2	0.039	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Molinate	n/a	=	102	%	EPA 525.2	-88	-88	76	116	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Molinate	n/a	=	91	%	EPA 525.2	-88	-88	76	116	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Molinate	n/a	=	12	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Naled	n/a	=	0.41	µg/L	EPA 525.2	0.0076	0.01			GB
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Naled	n/a	=	0.358	µg/L	EPA 525.2	0.0076	0.01			GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Naled	n/a	=	716	%	EPA 525.2	-88	-88	5	150	GB
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Naled	n/a	=	821	%	EPA 525.2	-88	-88	5	150	GB
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Naled	n/a	=	14	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Naled	n/a	=	0.0295	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Naled	n/a	=	59	%	EPA 525.2	-88	-88	5	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	LCS	5/12/2011	Pesticide	Naled	n/a	=	0.0953	µg/L	EPA 525.2	0.0076	0.01			EUM
2010/11-5	Lab	LCS dup	5/12/2011	Pesticide	Naled	n/a	=	0.0856	µg/L	EPA 525.2	0.0076	0.01			EUM
2010/11-5	Lab	LCS dup, rec	5/12/2011	Pesticide	Naled	n/a	=	171	%	EPA 525.2	-88	-88	5	150	EUM
2010/11-5	Lab	LCS, rec	5/12/2011	Pesticide	Naled	n/a	=	191	%	EPA 525.2	-88	-88	5	150	EUM
2010/11-5	Lab	LCS, RPD	5/12/2011	Pesticide	Naled	n/a	=	11	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Naled	n/a	=	0.0562	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Naled	n/a	=	112	%	EPA 525.2	-88	-88	5	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Naled	n/a	=	0.079	µg/L	EPA 525.2	0.0076	0.01			GB
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Naled	n/a	=	0.0958	µg/L	EPA 525.2	0.0076	0.01			GB
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Naled	n/a	=	192	%	EPA 525.2	-88	-88	5	150	GB
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Naled	n/a	=	158	%	EPA 525.2	-88	-88	5	150	GB
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Naled	n/a	=	19	%	EPA 525.2	-88	-88	0	25	GB
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	Pentachlorophenol	n/a	=	3.54	µg/L	EPA 515.3	0.04	0.2			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	Pentachlorophenol	n/a	=	3.44	µg/L	EPA 515.3	0.04	0.2			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	Pentachlorophenol	n/a	=	86	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	Pentachlorophenol	n/a	=	89	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	Pentachlorophenol	n/a	=	3	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	Pentachlorophenol	n/a	=	3.32	µg/L	EPA 515.3	0.04	0.2			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	Pentachlorophenol	n/a	=	3.28	µg/L	EPA 515.3	0.04	0.2			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	Pentachlorophenol	n/a	=	82	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	Pentachlorophenol	n/a	=	83	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	Pentachlorophenol	n/a	=	1	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	Pentachlorophenol	n/a	=	3.89	µg/L	EPA 515.3	0.04	0.2			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	Pentachlorophenol	n/a	=	97	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	Pentachlorophenol	n/a	=	3.38	µg/L	EPA 515.3	0.04	0.2			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	Pentachlorophenol	n/a	=	84	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Phorate	n/a	=	0.0422	µg/L	EPA 525.2	0.003	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Phorate	n/a	=	0.0428	µg/L	EPA 525.2	0.003	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Phorate	n/a	=	86	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Phorate	n/a	=	84	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Phorate	n/a	=	1	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Phorate	n/a	=	0.0398	µg/L	EPA 525.2	0.003	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Phorate	n/a	=	80	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Phorate	n/a	=	0.0416	µg/L	EPA 525.2	0.003	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Phorate	n/a	=	0.0432	µg/L	EPA 525.2	0.003	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Phorate	n/a	=	86	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Phorate	n/a	=	83	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Phorate	n/a	=	4	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Phorate	n/a	=	0.0397	µg/L	EPA 525.2	0.003	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Phorate	n/a	=	79	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Phorate	n/a	=	0.0412	µg/L	EPA 525.2	0.003	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Phorate	n/a	=	0.042	µg/L	EPA 525.2	0.003	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Phorate	n/a	=	84	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Phorate	n/a	=	82	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Phorate	n/a	=	2	%	EPA 525.2	-88	-88	0	25	
2010/11-5	000NONPJ	matrix spike	4/28/2011	Pesticide	Picloram	n/a	=	3.3	µg/L	EPA 515.3	0.05	0.6			
2010/11-5	000NONPJ	matrix spike dup	4/28/2011	Pesticide	Picloram	n/a	=	3.15	µg/L	EPA 515.3	0.05	0.6			
2010/11-5	000NONPJ	matrix spike dup, rec	4/28/2011	Pesticide	Picloram	n/a	=	79	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	4/28/2011	Pesticide	Picloram	n/a	=	83	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	4/28/2011	Pesticide	Picloram	n/a	=	5	%	EPA 515.3	-88	-88	0	30	
2010/11-5	000NONPJ	matrix spike	5/4/2011	Pesticide	Picloram	n/a	=	3.29	µg/L	EPA 515.3	0.05	0.6			
2010/11-5	000NONPJ	matrix spike dup	5/4/2011	Pesticide	Picloram	n/a	=	2.94	µg/L	EPA 515.3	0.05	0.6			
2010/11-5	000NONPJ	matrix spike dup, rec	5/4/2011	Pesticide	Picloram	n/a	=	74	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, rec	5/4/2011	Pesticide	Picloram	n/a	=	82	%	EPA 515.3	-88	-88	70	130	
2010/11-5	000NONPJ	matrix spike, RPD	5/4/2011	Pesticide	Picloram	n/a	=	11	%	EPA 515.3	-88	-88	0	30	
2010/11-5	Lab	LCS	4/28/2011	Pesticide	Picloram	n/a	=	3.68	µg/L	EPA 515.3	0.05	0.6			
2010/11-5	Lab	LCS, rec	4/28/2011	Pesticide	Picloram	n/a	=	92	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	4/28/2011	Pesticide	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6			
2010/11-5	Lab	LCS	5/4/2011	Pesticide	Picloram	n/a	=	3.27	µg/L	EPA 515.3	0.05	0.6			
2010/11-5	Lab	LCS, rec	5/4/2011	Pesticide	Picloram	n/a	=	82	%	EPA 515.3	-88	-88	70	130	
2010/11-5	Lab	method blank	5/4/2011	Pesticide	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6			
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Prometon	n/a	=	2.8	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Prometon	n/a	=	3.32	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Prometon	n/a	=	66	%	EPA 525.2	-88	-88	6	110	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Prometon	n/a	=	56	%	EPA 525.2	-88	-88	6	110	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Prometon	n/a	=	17	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Prometon	n/a	=	2.74	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Prometon	n/a	=	2.49	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Prometon	n/a	=	50	%	EPA 525.2	-88	-88	6	110	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Prometon	n/a	=	55	%	EPA 525.2	-88	-88	6	110	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Prometon	n/a	=	10	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1			
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Prometryn	n/a	=	4.52	µg/L	EPA 525.2	0.036	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Prometryn	n/a	=	4.67	µg/L	EPA 525.2	0.036	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Prometryn	n/a	=	93	%	EPA 525.2	-88	-88	34	152	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Prometryn	n/a	=	90	%	EPA 525.2	-88	-88	34	152	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Prometryn	n/a	=	3	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Prometryn	n/a	=	5.42	µg/L	EPA 525.2	0.036	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Prometryn	n/a	=	5.02	µg/L	EPA 525.2	0.036	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Prometryn	n/a	=	100	%	EPA 525.2	-88	-88	34	152	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Prometryn	n/a	=	108	%	EPA 525.2	-88	-88	34	152	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Prometryn	n/a	=	8	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0506	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0536	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	107	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	101	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	6	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0399	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	80	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0396	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0346	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	69	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	79	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	13	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0409	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	82	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.035	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	0.0367	µg/L	EPA 525.2	0.0041	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	73	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	70	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Ronnel (Fenchlorphos)	n/a	=	5	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Simazine	n/a	=	4.39	µg/L	EPA 525.2	0.015	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Simazine	n/a	=	4.74	µg/L	EPA 525.2	0.015	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Simazine	n/a	=	95	%	EPA 525.2	-88	-88	54	156	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Simazine	n/a	=	88	%	EPA 525.2	-88	-88	54	156	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Simazine	n/a	=	8	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Simazine	n/a	=	4.5	µg/L	EPA 525.2	0.015	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Simazine	n/a	=	4.31	µg/L	EPA 525.2	0.015	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Simazine	n/a	=	86	%	EPA 525.2	-88	-88	54	156	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Simazine	n/a	=	90	%	EPA 525.2	-88	-88	54	156	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Simazine	n/a	=	4	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0724	µg/L	EPA 525.2	0.0031	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0763	µg/L	EPA 525.2	0.0031	0.01			GB
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	153	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	145	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	5	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0309	µg/L	EPA 525.2	0.0031	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	62	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0344	µg/L	EPA 525.2	0.0031	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0162	µg/L	EPA 525.2	0.0031	0.01			EUM
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	32	%	EPA 525.2	-88	-88	50	150	EUM
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	69	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	72	%	EPA 525.2	-88	-88	0	25	IL
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0483	µg/L	EPA 525.2	0.0031	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	97	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0195	µg/L	EPA 525.2	0.0031	0.01			GB
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	0.0296	µg/L	EPA 525.2	0.0031	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	59	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	39	%	EPA 525.2	-88	-88	50	150	GB
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Stirophos (Tetrachlorvinphos)	n/a	=	41	%	EPA 525.2	-88	-88	0	25	GB,IL
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Terbacil	n/a	=	4.47	µg/L	EPA 525.2	0.55	2			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Terbacil	n/a	=	5.08	µg/L	EPA 525.2	0.55	2			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Terbacil	n/a	=	102	%	EPA 525.2	-88	-88	66	140	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Terbacil	n/a	=	89	%	EPA 525.2	-88	-88	66	140	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Terbacil	n/a	=	13	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Terbacil	n/a	=	8.68	µg/L	EPA 525.2	0.55	2			EUM
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Terbacil	n/a	=	9.37	µg/L	EPA 525.2	0.55	2			EUM
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Terbacil	n/a	=	187	%	EPA 525.2	-88	-88	66	140	EUM
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Terbacil	n/a	=	174	%	EPA 525.2	-88	-88	66	140	EUM
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Terbacil	n/a	=	8	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2			
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Thiobencarb	n/a	=	4.28	µg/L	EPA 525.2	0.025	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Thiobencarb	n/a	=	4.6	µg/L	EPA 525.2	0.025	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Thiobencarb	n/a	=	92	%	EPA 525.2	-88	-88	57	162	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Thiobencarb	n/a	=	86	%	EPA 525.2	-88	-88	57	162	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Thiobencarb	n/a	=	7	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Thiobencarb	n/a	=	4.81	µg/L	EPA 525.2	0.025	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Thiobencarb	n/a	=	4.55	µg/L	EPA 525.2	0.025	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Thiobencarb	n/a	=	91	%	EPA 525.2	-88	-88	57	162	

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Thiobencarb	n/a	=	96	%	EPA 525.2	-88	-88	57	162	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Thiobencarb	n/a	=	6	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.1			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Tokuthion	n/a	=	0.0444	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Tokuthion	n/a	=	0.0496	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Tokuthion	n/a	=	99	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Tokuthion	n/a	=	89	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Tokuthion	n/a	=	11	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Tokuthion	n/a	=	0.0419	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Tokuthion	n/a	=	84	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Tokuthion	n/a	=	0.0449	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Tokuthion	n/a	=	0.0455	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Tokuthion	n/a	=	91	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Tokuthion	n/a	=	90	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Tokuthion	n/a	=	1	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Tokuthion	n/a	=	0.0428	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Tokuthion	n/a	=	86	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Tokuthion	n/a	=	0.0352	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Tokuthion	n/a	=	0.0351	µg/L	EPA 525.2	0.0078	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Tokuthion	n/a	=	70	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Tokuthion	n/a	=	70	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Tokuthion	n/a	=	0.3	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	4/29/2011	Pesticide	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5			
2010/11-5	Lab	method blank	5/10/2011	Pesticide	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5			
2010/11-5	000NONPJ	matrix spike	5/17/2011	Pesticide	Trichloronate	n/a	=	0.0413	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	000NONPJ	matrix spike dup	5/17/2011	Pesticide	Trichloronate	n/a	=	0.0458	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	000NONPJ	matrix spike dup, rec	5/17/2011	Pesticide	Trichloronate	n/a	=	92	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, rec	5/17/2011	Pesticide	Trichloronate	n/a	=	83	%	EPA 525.2	-88	-88	50	150	
2010/11-5	000NONPJ	matrix spike, RPD	5/17/2011	Pesticide	Trichloronate	n/a	=	10	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	5/3/2011	Pesticide	Trichloronate	n/a	=	0.0412	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS, rec	5/3/2011	Pesticide	Trichloronate	n/a	=	82	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/3/2011	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	method blank	5/12/2011	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS	5/16/2011	Pesticide	Trichloronate	n/a	=	0.0416	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS dup	5/16/2011	Pesticide	Trichloronate	n/a	=	0.0421	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS dup, rec	5/16/2011	Pesticide	Trichloronate	n/a	=	84	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, rec	5/16/2011	Pesticide	Trichloronate	n/a	=	83	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	LCS, RPD	5/16/2011	Pesticide	Trichloronate	n/a	=	1	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	method blank	5/16/2011	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS	5/17/2011	Pesticide	Trichloronate	n/a	=	0.04	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	Lab	LCS, rec	5/17/2011	Pesticide	Trichloronate	n/a	=	80	%	EPA 525.2	-88	-88	50	150	
2010/11-5	Lab	method blank	5/17/2011	Pesticide	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	MO-VEN	matrix spike	5/3/2011	Pesticide	Trichloronate	n/a	=	0.0357	µg/L	EPA 525.2	0.0067	0.01			

Appendix F
Laboratory QA/QC Analysis Results

Event ID	Site ID	QAQC Sample Type	Analysis Date	Classification	Constituent	Fraction	Sign	Result	Units	Method	MDL	RL	QA Limit		DQOComp
													Min	Max	
2010/11-5	MO-VEN	matrix spike dup	5/3/2011	Pesticide	Trichloronate	n/a	=	0.0359	µg/L	EPA 525.2	0.0067	0.01			
2010/11-5	MO-VEN	matrix spike dup, rec	5/3/2011	Pesticide	Trichloronate	n/a	=	72	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, rec	5/3/2011	Pesticide	Trichloronate	n/a	=	71	%	EPA 525.2	-88	-88	50	150	
2010/11-5	MO-VEN	matrix spike, RPD	5/3/2011	Pesticide	Trichloronate	n/a	=	0.6	%	EPA 525.2	-88	-88	0	25	
2010/11-5	Lab	LCS	4/22/2011	Pesticide	Trithion	n/a	=	4.5	µg/L	EPA 525.2	0.012	0.1			
2010/11-5	Lab	LCS dup	4/22/2011	Pesticide	Trithion	n/a	=	4.95	µg/L	EPA 525.2	0.012	0.1			
2010/11-5	Lab	LCS dup, rec	4/22/2011	Pesticide	Trithion	n/a	=	99	%	EPA 525.2	-88	-88	62	149	
2010/11-5	Lab	LCS, rec	4/22/2011	Pesticide	Trithion	n/a	=	90	%	EPA 525.2	-88	-88	62	149	
2010/11-5	Lab	LCS, RPD	4/22/2011	Pesticide	Trithion	n/a	=	10	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	4/22/2011	Pesticide	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1			
2010/11-5	Lab	LCS	5/6/2011	Pesticide	Trithion	n/a	=	7.02	µg/L	EPA 525.2	0.012	0.1			
2010/11-5	Lab	LCS dup	5/6/2011	Pesticide	Trithion	n/a	=	6.46	µg/L	EPA 525.2	0.012	0.1			
2010/11-5	Lab	LCS dup, rec	5/6/2011	Pesticide	Trithion	n/a	=	129	%	EPA 525.2	-88	-88	62	149	
2010/11-5	Lab	LCS, rec	5/6/2011	Pesticide	Trithion	n/a	=	140	%	EPA 525.2	-88	-88	62	149	
2010/11-5	Lab	LCS, RPD	5/6/2011	Pesticide	Trithion	n/a	=	8	%	EPA 525.2	-88	-88	0	30	
2010/11-5	Lab	method blank	5/6/2011	Pesticide	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1			

Appendix G. Laboratory Environmental Analysis Results

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	DCPA (Dacthal)	n/a	=	0.89	µg/L	EPA 515.3	0.07	0.1	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	Pentachlorophenol	n/a	=	17	µg/L	EPA 515.3	0.16	0.8	WKL	D
dison RC pipe at MP	2010/11-4	Wet	6/2011 7:15:00 A	3/8/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-CC	2010/11-1	Wet	6/2010 4:30:00	7/2010 4:10:00 A	E. Coli	n/a	=	8664	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-CC	2010/11-1	Wet	6/2010 4:30:00	7/2010 8:42:00 A	Enterococcus	n/a	=	10910	MPN/100 mL	Enterolert	100	100	VCHCA	D
ME-CC	2010/11-1	Wet	6/2010 4:30:00	0/2010 10:15:00	Fecal Coliform	n/a	=	16000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2010/11-1	Wet	6/2010 4:30:00	7/2010 4:10:00 A	Total Coliform	n/a	=	920800	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
ME-CC	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00 A	Conductivity	n/a	=	1270	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2010/11-1	Wet	6/2010 4:30:00 A	10/13/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	X
ME-CC	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00 A	DO	n/a	=	6.03	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00 A	DO	n/a	=	64	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00 A	pH	n/a	=	7.68	pH Units	Field Meter	-88	0.01	Field Crew	
ME-CC	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00 A	Salinity	n/a	=	0.0000007	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-CC	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00 A	Specific Conductance	n/a	=	1464	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00 A	Temperature	n/a	=	18	°C	Field Meter	-88	0.1	Field Crew	
ME-CC	2010/11-1	Wet	6/2010 4:30:00 A	10/13/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	X
ME-CC	2010/11-1	Wet	6/2010 4:30:00 A	10/13/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
ME-CC	2010/11-1	Wet	6/2010 4:30:00 A	10/8/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
ME-CC	2010/11-1	Wet	6/2010 4:30:00 A	10/8/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Chloride	n/a	=	72	mg/L	EPA 300.0	1	5	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Fluoride	n/a	=	0.26	mg/L	EPA 300.0	0.04	0.2	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/14/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Calcium	Total	=	42	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Magnesium	Total	=	25	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	9/2010 1:44:00	Alkalinity as CaCO3	n/a	=	97	mg/L	SM 2320 B	1.2	10	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	BOD	n/a	=	13	mg/L	SM 5210 B	0.1	2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/11/2010	COD	n/a	=	65	mg/L	EPA 410.4	1.8	5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Hardness as CaCO3	Total	=	210	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/9/2010	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	8/2010 3:20:00	Phenolics	n/a	=	0.086	mg/L	EPA 420.4	0.0016	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/19/2010	Specific Conductance	n/a	=	640	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	8/2010 5:41:00	Total Chlorine Residual	n/a	DNQ	0.13	mg/L	SM 4500-Cl G	0.016	0.5	WKL	D,BV
ME-CC	2010/11-1	Wet	/2010 11:12:00	3/2010 5:45:00	Total Dissolved Solids	n/a	=	400	mg/L	SM 2540 C	4	10	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	0/2010 9:40:00	Total Organic Carbon	n/a	=	13	mg/L	SM 5310 C	0.32	3	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	280	mg/L	SM 2540 D	5	5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	8/2010 4:14:00	Turbidity	n/a	=	160	NTU	EPA 180.1	0.024	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	50	mg/L	EPA 160.4	3.1	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Aluminum	Dissolved	=	23	µg/L	EPA 200.8	0.19	5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/18/2010	Aluminum	Total	=	6400	µg/L	EPA 200.8	9.5	250	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Antimony	Dissolved	=	0.72	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Antimony	Total	=	0.76	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Arsenic	Dissolved	=	2.8	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Arsenic	Total	=	4.2	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Barium	Total	=	62	µg/L	EPA 200.8	0.024	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Beryllium	Total	=	0.21	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Cadmium	Dissolved	=	0.11	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Cadmium	Total	=	0.61	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Chromium	Dissolved	=	0.37	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Chromium	Total	=	20	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/9/2010	Chromium VI	n/a	DNQ	0.062	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Copper	Dissolved	=	5	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Copper	Total	=	20	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Iron	Dissolved	=	94	µg/L	EPA 200.8	0.6	20	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Iron	Total	=	9300	µg/L	EPA 200.8	0.6	20	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Lead	Dissolved	DNQ	0.13	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Lead	Total	=	5.9	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/18/2010	Mercury	Dissolved	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/18/2010	Mercury	Total	=	53	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Nickel	Dissolved	=	5	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Nickel	Total	=	21	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Selenium	Dissolved	=	1.5	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Selenium	Total	=	1.6	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Silver	Total	DNQ	0.099	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Thallium	Total	DNQ	0.079	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Zinc	Dissolved	=	7.7	µg/L	EPA 200.8	0.3	5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/13/2010	Zinc	Total	=	57	µg/L	EPA 200.8	0.3	5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Ammonia as N	n/a	=	0.34	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	/2010 11:32:00	Nitrate + Nitrite as N	n/a	=	2.2	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	/2010 11:32:00	Nitrate as N	n/a	=	2.2	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Phosphorus as P	Dissolved	=	0.7	mg/L	EPA 365.1	0.007	0.05	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Phosphorus as P	Total	=	1.3	mg/L	EPA 365.1	0.014	0.1	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	TKN	n/a	=	3.2	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	1,2,4-Trichlorobenzene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	1,2-Dichlorobenzene	n/a	<	3	µg/L	EPA 625	3	20	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	1,2-Diphenylhydrazine	n/a	<	3.5	µg/L	EPA 625	3.5	10	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	1,3-Dichlorobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	1,4-Dichlorobenzene	n/a	<	3.2	µg/L	EPA 625	3.2	10	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	2,4-Dinitrotoluene	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	2,6-Dinitrotoluene	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	2-Chloronaphthalene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	3,3'-Dichlorobenzidine	n/a	<	3	µg/L	EPA 625	3	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	4-Bromophenyl phenyl ether	n/a	<	2.3	µg/L	EPA 625	2.3	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	4-Chlorophenyl phenyl ether	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Benzidine	n/a	<	7	µg/L	EPA 625	7	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Bis(2-chloroethoxy)methane	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Bis(2-chloroethyl)ether	n/a	<	4.6	µg/L	EPA 625	4.6	10	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Bis(2-chloroisopropyl)ether	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Butyl benzyl phthalate	n/a	<	10	µg/L	EPA 625	10	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Diethyl phthalate	n/a	<	2.3	µg/L	EPA 625	2.3	20	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Dimethyl phthalate	n/a	<	2.6	µg/L	EPA 625	2.6	20	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Di-n-butylphthalate	n/a	<	5.3	µg/L	EPA 625	5.3	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Di-n-octylphthalate	n/a	<	2.8	µg/L	EPA 625	2.8	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Hexachlorobenzene	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Hexachlorobutadiene	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Hexachlorocyclopentadiene	n/a	<	50	µg/L	EPA 625	50	100	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Hexachloroethane	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Isophorone	n/a	<	3.3	µg/L	EPA 625	3.3	10	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Nitrobenzene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	N-Nitrosodimethylamine	n/a	<	3.6	µg/L	EPA 625	3.6	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	N-Nitrosodi-N-propylamine	n/a	<	4.1	µg/L	EPA 625	4.1	50	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	N-Nitrosodiphenylamine	n/a	<	2.3	µg/L	EPA 625	2.3	10	WKL	D
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/22/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/20/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	4,4'-DDE	n/a	DNQ	0.014	µg/L	EPA 608	0.0025	0.05	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	4,4'-DDT	n/a	DNQ	0.0063	µg/L	EPA 608	0.0031	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Chlorpyrifos	n/a	=	0.012	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	DCPA (Dacthal)	n/a	=	0.84	µg/L	EPA 515.3	0.02	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	8/2010 4:41:00	Glyphosate	n/a	=	20	µg/L	EPA 547	1.8	5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Malathion	n/a	=	0.17	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/16/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	11/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2010/11-1	Wet	/2010 11:12:00	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	1/2010 3:30:00	E. Coli	n/a	=	6131	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-CC	2010/11-2	Wet	0/2010 5:45:00	1/2010 8:45:00	Enterococcus	n/a	=	8310	MPN/100 mL	Enterolert	100	100	VCHCA	D
ME-CC	2010/11-2	Wet	0/2010 5:45:00	3/2010 9:55:00	Fecal Coliform	n/a	=	24000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	1/2010 3:30:00	Total Coliform	n/a	=	547500	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
ME-CC	2010/11-2	Wet	0/2010 5:45:00	0/2010 5:45:00	Conductivity	n/a	=	311.7	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	0/2010 5:45:00	DO	n/a	=	89.3	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	0/2010 5:45:00	DO	n/a	=	9.25	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	0/2010 5:45:00	pH	n/a	=	7.89	pH Units	Field Meter	-88	0.01	Field Crew	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-2	Wet	0/2010 5:45:00	0/2010 5:45:00	Salinity	n/a	=	0.0000002	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	0/2010 5:45:00	Specific Conductance	n/a	=	382	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	0/2010 5:45:00	Temperature	n/a	=	14.3	°C	Field Meter	-88	0.1	Field Crew	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	11/10/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	11/3/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
ME-CC	2010/11-2	Wet	0/2010 5:45:00	11/3/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/4/2010	Chloride	n/a	=	76	mg/L	EPA 300.0	1	5	WKL	D
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/4/2010	Fluoride	n/a	=	0.24	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/9/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/5/2010	Calcium	Total	=	52	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/5/2010	Magnesium	Total	=	31	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Alkalinity as CaCO3	n/a	=	120	mg/L	SM 2320 B	1.2	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	BOD	n/a	=	10	mg/L	SM 5210 B	0.1	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/3/2010	COD	n/a	=	85	mg/L	EPA 410.4	1.8	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/5/2010	Hardness as CaCO3	Total	=	260	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/1/2010	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Phenolics	n/a	=	0.038	mg/L	EPA 420.4	0.0016	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/4/2010	Specific Conductance	n/a	=	690	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/1/2010	Total Chlorine Residual	n/a	=	0.12	mg/L	SM 4500-Cl G	0.0016	0.05	WKL	BV
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/5/2010	Total Dissolved Solids	n/a	=	410	mg/L	SM 2540 C	4	10	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Total Organic Carbon	n/a	=	8.5	mg/L	SM 5310 C	0.16	1.5	WKL	D
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/5/2010	Total Suspended Solids	n/a	=	370	mg/L	SM 2540 D	5	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/1/2010	Turbidity	n/a	=	95	NTU	EPA 180.1	0.024	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/5/2010	Volatile Suspended Solids	n/a	=	50	mg/L	EPA 160.4	3.1	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Aluminum	Dissolved	=	17	µg/L	EPA 200.8	0.19	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Aluminum	Total	=	15000	µg/L	EPA 200.8	19	500	WKL	D
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Antimony	Dissolved	=	0.54	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Antimony	Total	=	0.59	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Arsenic	Dissolved	=	2.9	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Arsenic	Total	=	6.8	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Barium	Total	=	140	µg/L	EPA 200.8	0.024	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Beryllium	Total	=	0.54	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Cadmium	Dissolved	=	0.14	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Cadmium	Total	=	1.6	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Chromium	Dissolved	=	0.28	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Chromium	Total	=	47	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/5/2010	Chromium VI	n/a	DNQ	0.087	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Copper	Dissolved	=	3.5	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Copper	Total	=	44	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Iron	Dissolved	=	44	µg/L	EPA 200.8	0.6	20	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Iron	Total	=	27000	µg/L	EPA 200.8	0.6	20	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Lead	Dissolved	DNQ	0.1	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Lead	Total	=	17	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/11/2010	Mercury	Dissolved	DNQ	25	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/11/2010	Mercury	Total	=	76	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Nickel	Dissolved	=	3.7	µg/L	EPA 200.8	0.011	0.8	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Nickel	Total	=	45	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Selenium	Dissolved	=	1.1	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Selenium	Total	=	1.9	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Silver	Total	=	0.27	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Thallium	Total	=	0.25	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Zinc	Dissolved	=	9.1	µg/L	EPA 200.8	0.3	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/10/2010	Zinc	Total	=	140	µg/L	EPA 200.8	0.3	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Ammonia as N	n/a	=	0.53	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/1/2010	Nitrate + Nitrite as N	n/a	=	2.5	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/1/2010	Nitrate as N	n/a	=	2.2	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/18/2010	Phosphorus as P	Dissolved	=	0.76	mg/L	EPA 365.1	0.035	0.25	WKL	D
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/18/2010	Phosphorus as P	Total	=	2.7	mg/L	EPA 365.1	0.035	0.25	WKL	D
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/9/2010	TKN	n/a	=	5.2	mg/L	EPA 351.2	0.15	0.2	WKL	D
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Diethyl phthalate	n/a	DNQ	1.4	µg/L	EPA 625	0.23	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/16/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/8/2010	4,4'-DDE	n/a	=	0.15	µg/L	EPA 608	0.0025	0.05	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/8/2010	4,4'-DDT	n/a	=	0.067	µg/L	EPA 608	0.0031	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/8/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM,IL
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Chlorpyrifos	n/a	=	0.047	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	DCPA (Dacthal)	n/a	=	1.1	µg/L	EPA 515.3	0.02	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Diazinon	n/a	=	0.016	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/8/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/4/2010	Glyphosate	n/a	DNQ	3.6	µg/L	EPA 547	1.8	5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Malathion	n/a	=	0.2	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	IL
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	IL
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/6/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	12/6/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2010/11-2	Wet	1/2010 9:40:00	11/24/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2010/11-4	Wet	6/2011 7:05:00	7/2011 5:00:00 A	E. Coli	n/a	=	2481	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-CC	2010/11-4	Wet	6/2011 7:05:00	1/2011 10:45:00	Enterococcus	n/a	=	8850	MPN/100 mL	Enterolert	100	100	VCHCA	D
ME-CC	2010/11-4	Wet	6/2011 7:05:00	0/2011 9:04:00 A	Fecal Coliform	n/a	=	5000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2010/11-4	Wet	6/2011 7:05:00	7/2011 5:00:00 A	Total Coliform	n/a	=	325500	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
ME-CC	2010/11-4	Wet	6/2011 7:05:00	6/2011 7:05:00 A	Conductivity	n/a	=	599	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2010/11-4	Wet	6/2011 7:05:00 A	3/3/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	H
ME-CC	2010/11-4	Wet	6/2011 7:05:00	6/2011 7:05:00 A	DO	n/a	=	89.3	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2010/11-4	Wet	6/2011 7:05:00	6/2011 7:05:00 A	DO	n/a	=	8.92	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2010/11-4	Wet	6/2011 7:05:00	6/2011 7:05:00 A	pH	n/a	=	7.77	pH Units	Field Meter	-88	0.01	Field Crew	
ME-CC	2010/11-4	Wet	6/2011 7:05:00	6/2011 7:05:00 A	Salinity	n/a	=	0.0000004	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-CC	2010/11-4	Wet	6/2011 7:05:00	6/2011 7:05:00 A	Specific Conductance	n/a	=	746	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2010/11-4	Wet	6/2011 7:05:00	6/2011 7:05:00 A	Temperature	n/a	=	14.7	°C	Field Meter	-88	0.1	Field Crew	
ME-CC	2010/11-4	Wet	6/2011 7:05:00 A	2/24/2011	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
ME-CC	2010/11-4	Wet	6/2011 7:05:00 A	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-CC	2010/11-4	Wet	6/2011 7:05:00 A	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
ME-CC	2010/11-4	Wet	6/2011 7:05:00 A	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Chloride	n/a	=	140	mg/L	EPA 300.0	1	5	WKL	D
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Fluoride	n/a	=	0.38	mg/L	EPA 300.0	0.02	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/3/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Calcium	Total	=	73	mg/L	EPA 200.7	0.016	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Magnesium	Total	=	40	mg/L	EPA 200.7	0.012	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/23/2011	Alkalinity as CaCO3	n/a	=	190	mg/L	SM 2320 B	1.2	10	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/23/2011	BOD	n/a	=	6.3	mg/L	SM 5210 B	0.1	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/18/2011	COD	n/a	=	25	mg/L	EPA 410.4	1.8	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Hardness as CaCO3	Total	=	350	mg/L	EPA 200.7	0.089	0.66	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/18/2011	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Phenolics	n/a	=	0.032	mg/L	EPA 420.4	0.0016	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/23/2011	Specific Conductance	n/a	=	1200	µmhos/cm	SM 2510 B	0.23	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/18/2011	Total Chlorine Residual	n/a	DNQ	0.013	mg/L	SM 4500-Cl G	0.0016	0.05	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/18/2011	Total Dissolved Solids	n/a	=	740	mg/L	SM 2540 C	4	10	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Total Organic Carbon	n/a	=	6	mg/L	SM 5310 C	0.036	1.2	WKL	D
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/18/2011	Total Suspended Solids	n/a	=	97	mg/L	SM 2540 D	5	5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-4	Wet	7/2011 8:37:00	2/18/2011	Turbidity	n/a	=	39	NTU	EPA 180.1	0.024	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	2/18/2011	Volatile Suspended Solids	n/a	=	13	mg/L	EPA 160.4	3.1	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Aluminum	Dissolved	=	5.2	µg/L	EPA 200.8	0.19	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Aluminum	Total	=	2100	µg/L	EPA 200.8	0.19	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Antimony	Dissolved	DNQ	0.46	µg/L	EPA 200.8	0.008	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Antimony	Total	=	0.51	µg/L	EPA 200.8	0.008	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Arsenic	Dissolved	=	2.8	µg/L	EPA 200.8	0.014	0.4	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Arsenic	Total	=	3.6	µg/L	EPA 200.8	0.014	0.4	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Barium	Total	=	43	µg/L	EPA 200.8	0.024	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Beryllium	Total	DNQ	0.09	µg/L	EPA 200.8	0.022	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Cadmium	Dissolved	=	0.2	µg/L	EPA 200.8	0.013	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Cadmium	Total	=	0.32	µg/L	EPA 200.8	0.013	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Chromium	Dissolved	=	0.4	µg/L	EPA 200.8	0.012	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Chromium	Total	=	7.7	µg/L	EPA 200.8	0.012	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	2/25/2011	Chromium VI	n/a	DNQ	0.23	µg/L	EPA 218.6	0.0059	0.3	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Copper	Dissolved	=	4.5	µg/L	EPA 200.8	0.022	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Copper	Total	=	9.5	µg/L	EPA 200.8	0.022	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Iron	Dissolved	=	140	µg/L	EPA 200.8	0.6	20	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Iron	Total	=	3200	µg/L	EPA 200.8	0.6	20	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Lead	Dissolved	DNQ	0.064	µg/L	EPA 200.8	0.017	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Lead	Total	=	2.5	µg/L	EPA 200.8	0.017	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/3/2011	Mercury	Dissolved	DNQ	8	ng/L	EPA 245.1	3.9	50	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/3/2011	Mercury	Total	DNQ	22	ng/L	EPA 245.1	3.9	50	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Nickel	Dissolved	=	4.6	µg/L	EPA 200.8	0.011	0.8	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Nickel	Total	=	9.8	µg/L	EPA 200.8	0.011	0.8	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Selenium	Dissolved	=	1.3	µg/L	EPA 200.8	0.017	0.4	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Selenium	Total	=	1.9	µg/L	EPA 200.8	0.017	0.4	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Silver	Total	DNQ	0.025	µg/L	EPA 200.8	0.008	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Thallium	Total	DNQ	0.035	µg/L	EPA 200.8	0.02	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Zinc	Dissolved	=	12	µg/L	EPA 200.8	0.3	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	Zinc	Total	=	28	µg/L	EPA 200.8	0.3	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/4/2011	Ammonia as N	n/a	=	0.15	mg/L	EPA 350.1	0.048	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	7	mg/L	EPA 353.2	0.01	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	2/18/2011	Nitrate as N	n/a	=	6.8	mg/L	EPA 353.2	0.041	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/7/2011	Phosphorus as P	Dissolved	=	1.6	mg/L	EPA 365.1	0.07	0.5	WKL	D
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/7/2011	Phosphorus as P	Total	=	1.9	mg/L	EPA 365.1	0.07	0.5	WKL	D
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/7/2011	TKN	n/a	=	1.3	mg/L	EPA 351.2	0.074	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	2,4,6-Trichlorophenol	n/a	DNQ	0.43	µg/L	EPA 8270Cm	0.3	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Diethyl phthalate	n/a	DNQ	1.7	µg/L	EPA 625	0.23	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	4,4'-DDE	n/a	DNQ	0.023	µg/L	EPA 608	0.0025	0.05	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/7/2011	4,4'-DDT	n/a	DNQ	0.0078	µg/L	EPA 608	0.0031	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	IL
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	IL
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	DCPA (Dacthal)	n/a	=	1.3	µg/L	EPA 515.3	0.02	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	IL
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	Glyphosate	n/a	DNQ	2	µg/L	EPA 547	1.8	5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Malathion	n/a	=	0.58	µg/L	EPA 525.2	0.0076	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/22/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	2/25/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
ME-CC	2010/11-4	Wet	7/2011 8:37:00 A	3/4/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
ME-CC	2010/11-5	Dry	9/2011 10:50:00	5/3/2011	Chloride	n/a	=	190	mg/L	EPA 300.0	1	5	WKL	D
ME-CC	2010/11-5	Dry	9/2011 10:50:00	5/2/2011	Fluoride	n/a	=	0.54	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-CC	2010/11-5	Dry	9/2011 10:50:00	5/2/2011	Perchlorate	n/a	<	1.3	µg/L	EPA 314.0	1.3	4	WKL	D
ME-CC	2010/11-5	Dry	9/2011 10:50:00	9/2011 8:10:00 A	E. Coli	n/a	=	30	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-CC	2010/11-5	Dry	9/2011 10:50:00	9/2011 2:20:00	Enterococcus	n/a	=	10	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-CC	2010/11-5	Dry	9/2011 10:50:00	/2011 12:10:00	Fecal Coliform	n/a	=	130	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2010/11-5	Dry	9/2011 10:50:00	9/2011 8:10:00 A	Total Coliform	n/a	=	15531	MPN/100 mL	MMO-MUG	10	10	VCHCA	

Appendix G
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Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/5/2011	Calcium	Total	=	88	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/5/2011	Magnesium	Total	=	59	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Alkalinity as CaCO3	n/a	=	250	mg/L	SM 2320 B	1.2	10	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	BOD	n/a	DNQ	1.5	mg/L	SM 5210 B	0.1	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/2/2011	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	/2011 10:50:00	Conductivity	n/a	=	1440	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	/2011 10:50:00	DO	n/a	=	10.02	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2010/11-5	Dry	/2011 10:50:00	/2011 10:50:00	DO	n/a	=	110.9	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/5/2011	Hardness as CaCO3	Total	=	460	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	4/29/2011	MBAS	n/a	DNQ	0.028	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	/2011 10:50:00	pH	n/a	=	8.09	pH Units	Field Meter	-88	0.01	Field Crew	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Phenolics	n/a	=	0.042	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	/2011 10:50:00	Salinity	n/a	=	0.0000008	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-CC	2010/11-5	Dry	/2011 10:50:00	/2011 10:50:00	Specific Conductance	n/a	=	1588	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	Specific Conductance	n/a	=	1300	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	/2011 10:50:00	Temperature	n/a	=	20.1	°C	Field Meter	-88	0.1	Field Crew	
ME-CC	2010/11-5	Dry	/2011 10:50:00	4/29/2011	Total Chlorine Residual	n/a	DNQ	0.036	mg/L	SM 4500-Cl G	0.0016	0.05	WKL	BV
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	Total Dissolved Solids	n/a	=	1000	mg/L	SM 2540 C	4	10	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	4/29/2011	Total Organic Carbon	n/a	=	3.8	mg/L	SM 5310 C	0.009	0.3	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	Total Suspended Solids	n/a	=	7	mg/L	SM 2540 D	5	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	4/29/2011	Turbidity	n/a	=	1.9	NTU	EPA 180.1	0.024	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/2/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/2/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Aluminum	Dissolved	DNQ	3	µg/L	EPA 200.8	0.19	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Aluminum	Total	=	97	µg/L	EPA 200.8	0.19	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Antimony	Dissolved	DNQ	0.34	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Antimony	Total	DNQ	0.33	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Arsenic	Dissolved	=	3.9	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Arsenic	Total	=	3.9	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Barium	Total	=	33	µg/L	EPA 200.8	0.024	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Cadmium	Dissolved	=	0.18	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Cadmium	Total	=	0.19	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Chromium	Dissolved	=	0.32	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Chromium	Total	=	0.68	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Chromium VI	n/a	DNQ	0.21	µg/L	EPA 218.6	0.03	1.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Copper	Dissolved	=	3.2	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Copper	Total	=	3.5	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Iron	Dissolved	DNQ	4.1	µg/L	EPA 200.8	0.6	20	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Iron	Total	=	140	µg/L	EPA 200.8	0.6	20	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Lead	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Lead	Total	DNQ	0.14	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Nickel	Dissolved	=	4.6	µg/L	EPA 200.8	0.011	0.8	WKL	

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ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Nickel	Total	=	4.8	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Selenium	Dissolved	=	2.6	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Selenium	Total	=	2.6	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Silver	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Silver	Total	DNQ	0.02	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Thallium	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Zinc	Dissolved	=	11	µg/L	EPA 200.8	0.3	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/9/2011	Zinc	Total	=	12	µg/L	EPA 200.8	0.3	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/2/2011	Ammonia as N	n/a	=	0.11	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	4/29/2011	Nitrate + Nitrite as N	n/a	=	8.4	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	4/29/2011	Nitrate as N	n/a	=	8.4	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Phosphorus as P	Dissolved	=	1.6	mg/L	EPA 365.1	0.07	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Phosphorus as P	Total	=	1.6	mg/L	EPA 365.1	0.07	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/5/2011	TKN	n/a	=	0.59	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	2,4,6-Trichlorophenol	n/a	DNQ	0.39	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	4/29/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	EUM
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Diethyl phthalate	n/a	=	2.1	µg/L	EPA 625	0.23	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	4/29/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/11/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Phenol	n/a	DNQ	0.51	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/7/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/12/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	DCPA (Dacthal)	n/a	=	1.9	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Diazinon	n/a	DNQ	0.0063	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/4/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	4/29/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/10/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/16/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-CC	2010/11-5	Dry	/2011 10:50:00	5/6/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/6/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/16/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/6/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/12/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/4/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/16/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/4/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/6/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/6/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/16/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/6/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/16/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/6/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/6/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/16/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/10/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/16/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2010/11-5	Dry	6/2011 10:50:00	5/6/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	7/2010 4:10:00	E. Coli	n/a	=	359	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	7/2010 8:42:00	Enterococcus	n/a	=	782	MPN/100 mL	Enterolert	10	10	VCHCA	D
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	0/2010 10:17:00	Fecal Coliform	n/a	=	300	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	7/2010 4:10:00	Total Coliform	n/a	=	43520	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	6/2010 5:30:00	Conductivity	n/a	=	991	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	10/13/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	X
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	6/2010 5:30:00	DO	n/a	=	8.3	mg/L	Field Meter	-88	0.3	Field Crew	
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	6/2010 5:30:00	DO	n/a	=	84.2	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	6/2010 5:30:00	pH	n/a	=	7.91	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	6/2010 5:30:00	Salinity	n/a	=	0.0000006	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	6/2010 5:30:00	Specific Conductance	n/a	=	1179	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	6/2010 5:30:00	Temperature	n/a	=	16.7	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	10/12/2010	Oil and Grease	n/a	DNQ	2.2	mg/L	EPA 1664A	2	5	WKL	J
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	10/8/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
ME-SCR	2010/11-1	Wet	6/2010 5:30:00	10/8/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Chloride	n/a	=	65	mg/L	EPA 300.0	0.1	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Fluoride	n/a	=	0.47	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/14/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Calcium	Total	=	130	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Magnesium	Total	=	64	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	9/2010 1:44:00	Alkalinity as CaCO3	n/a	=	190	mg/L	SM 2320 B	1.2	10	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	BOD	n/a	=	11	mg/L	SM 5210 B	0.1	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/11/2010	COD	n/a	=	58	mg/L	EPA 410.4	1.8	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Hardness as CaCO3	Total	=	600	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/9/2010	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	8/2010 3:20:00	Phenolics	n/a	=	0.066	mg/L	EPA 420.4	0.0016	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/19/2010	Specific Conductance	n/a	=	1200	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	3/2010 5:45:00	Total Dissolved Solids	n/a	=	840	mg/L	SM 2540 C	4	10	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	0/2010 9:40:00	Total Organic Carbon	n/a	=	6.8	mg/L	SM 5310 C	0.16	1.5	WKL	D

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	1100	mg/L	SM 2540 D	5	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	8/2010 4:14:00	Turbidity	n/a	=	670	NTU	EPA 180.1	0.024	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	91	mg/L	EPA 160.4	3.1	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Aluminum	Dissolved	DNQ	4.2	µg/L	EPA 200.8	0.19	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/18/2010	Aluminum	Total	=	22000	µg/L	EPA 200.8	95	2500	WKL	D
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Antimony	Dissolved	DNQ	0.27	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Antimony	Total	DNQ	0.35	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Arsenic	Dissolved	=	0.98	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Arsenic	Total	=	7	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Barium	Total	=	260	µg/L	EPA 200.8	0.024	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Beryllium	Total	=	0.99	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Cadmium	Dissolved	DNQ	0.043	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Cadmium	Total	=	1.3	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Chromium	Dissolved	DNQ	0.091	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Chromium	Total	=	34	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/9/2010	Chromium VI	n/a	DNQ	0.026	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Copper	Dissolved	=	2.2	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Copper	Total	=	38	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Iron	Dissolved	DNQ	13	µg/L	EPA 200.8	0.6	20	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Iron	Total	=	39000	µg/L	EPA 200.8	0.6	20	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Lead	Dissolved	DNQ	0.019	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Lead	Total	=	14	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/18/2010	Mercury	Dissolved	DNQ	35	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/18/2010	Mercury	Total	=	79	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Nickel	Dissolved	=	3.2	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Nickel	Total	=	45	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Selenium	Dissolved	=	2.5	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Selenium	Total	=	3.4	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Silver	Total	DNQ	0.16	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Thallium	Total	=	0.53	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Zinc	Dissolved	DNQ	2	µg/L	EPA 200.8	0.3	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/13/2010	Zinc	Total	=	110	µg/L	EPA 200.8	0.3	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Ammonia as N	n/a	=	0.24	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	3/2010 11:32:00	Nitrate + Nitrite as N	n/a	=	1.1	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Phosphorus as P	Dissolved	=	0.042	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Phosphorus as P	Total	=	1.3	mg/L	EPA 365.1	0.014	0.1	WKL	D
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	TKN	n/a	=	2.2	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	

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2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Diethyl phthalate	n/a	DNQ	0.47	µg/L	EPA 625	0.23	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/22/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/20/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	GB
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM,GB
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	DCPA (Dacthal)	n/a	=	0.13	µg/L	EPA 515.3	0.02	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	8/2010 4:41:00	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Malathion	n/a	=	0.17	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Stirophos (Tetrachlorvinphos)	n/a	DNQ	0.0033	µg/L	EPA 525.2	0.0031	0.01	WKL	EUM
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/16/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	11/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2010/11-1	Wet	7/2010 1:00:00	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	1/2010 3:30:00	E. Coli	n/a	=	512	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	1/2010 9:15:00	Enterococcus	n/a	=	1013	MPN/100 mL	Enterolert	10	10	VCHCA	D
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	/2010 10:07:00	Fecal Coliform	n/a	=	500	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	1/2010 3:30:00	Total Coliform	n/a	=	72700	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	Conductivity	n/a	=	977	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	DO	n/a	=	8.24	mg/L	Field Meter	-88	0.3	Field Crew	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	DO	n/a	=	81.4	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	pH	n/a	=	8.21	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	Salinity	n/a	=	0.0000006	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	Specific Conductance	n/a	=	1197	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	Temperature	n/a	=	15.4	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	11/10/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	11/3/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
ME-SCR	2010/11-2	Wet	0/2010 5:30:00	11/3/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	Chloride	n/a	=	64	mg/L	EPA 300.0	1	5	WKL	D
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	Fluoride	n/a	=	3.2	mg/L	EPA 300.0	0.2	1	WKL	D
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/9/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/5/2010	Calcium	Total	=	130	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/5/2010	Magnesium	Total	=	47	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	Alkalinity as CaCO3	n/a	=	340	mg/L	SM 2320 B	1.2	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	BOD	n/a	=	80	mg/L	SM 5210 B	0.1	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/3/2010	COD	n/a	=	100	mg/L	EPA 410.4	1.8	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/5/2010	Hardness as CaCO3	Total	=	510	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/1/2010	MBAS	n/a	=	0.081	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Phenolics	n/a	=	0.1	mg/L	EPA 420.4	0.0016	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/4/2010	Specific Conductance	n/a	=	1400	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/5/2010	Total Dissolved Solids	n/a	=	950	mg/L	SM 2540 C	4	10	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Total Organic Carbon	n/a	=	33	mg/L	SM 5310 C	0.64	6	WKL	D
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/5/2010	Total Suspended Solids	n/a	=	20	mg/L	SM 2540 D	5	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/1/2010	Turbidity	n/a	=	4.1	NTU	EPA 180.1	0.024	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/5/2010	Volatile Suspended Solids	n/a	=	10	mg/L	EPA 160.4	3.1	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Aluminum	Dissolved	DNQ	4.7	µg/L	EPA 200.8	0.19	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Aluminum	Total	=	100	µg/L	EPA 200.8	0.19	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Antimony	Dissolved	DNQ	0.45	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Antimony	Total	DNQ	0.48	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Arsenic	Dissolved	=	4.6	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Arsenic	Total	=	4.9	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Barium	Total	=	68	µg/L	EPA 200.8	0.024	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Cadmium	Dissolved	DNQ	0.061	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Cadmium	Total	=	0.12	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Chromium	Dissolved	DNQ	0.095	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Chromium	Total	=	0.31	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/5/2010	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Copper	Dissolved	=	0.66	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Copper	Total	=	1.5	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Iron	Dissolved	=	250	µg/L	EPA 200.8	0.6	20	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Iron	Total	=	660	µg/L	EPA 200.8	0.6	20	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Lead	Dissolved	DNQ	0.071	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Lead	Total	=	0.22	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/11/2010	Mercury	Dissolved	DNQ	30	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/11/2010	Mercury	Total	DNQ	39	ng/L	EPA 245.1	3.9	50	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Nickel	Dissolved	=	6.3	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Nickel	Total	=	7.3	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Selenium	Dissolved	=	0.84	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Selenium	Total	=	1.4	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Silver	Total	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Zinc	Dissolved	DNQ	2.4	µg/L	EPA 200.8	0.3	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/10/2010	Zinc	Total	DNQ	2.4	µg/L	EPA 200.8	0.3	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/1/2010	Nitrate + Nitrite as N	n/a	=	0.22	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/18/2010	Phosphorus as P	Dissolved	=	0.073	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/18/2010	Phosphorus as P	Total	=	0.23	mg/L	EPA 365.1	0.0028	0.02	WKL	D
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/9/2010	TKN	n/a	=	1.1	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/17/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/17/2010	2-Methylphenol	n/a	DNQ	0.79	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/17/2010	3-/4-Methylphenol	n/a	=	5.5	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Diethyl phthalate	n/a	DNQ	0.45	µg/L	EPA 625	0.23	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/16/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/4/2010	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/6/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/7/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	12/1/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2010/11-2	Wet	1/2010 10:25:00	11/24/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	7/2011 5:00:00	E. Coli	n/a	=	1658	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	/2011 11:30:00	Enterococcus	n/a	=	2540	MPN/100 mL	Enterolert	100	100	VCHCA	D
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	0/2011 9:08:00	Fecal Coliform	n/a	=	1700	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	7/2011 5:00:00	Total Coliform	n/a	=	172200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	6/2011 8:55:00	Conductivity	n/a	=	780	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	3/1/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	6/2011 8:55:00	DO	n/a	=	88.1	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	6/2011 8:55:00	DO	n/a	=	9.1	mg/L	Field Meter	-88	0.3	Field Crew	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	6/2011 8:55:00	pH	n/a	=	8.05	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	6/2011 8:55:00	Salinity	n/a	=	0.0000005	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	6/2011 8:55:00	Specific Conductance	n/a	=	1002	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	6/2011 8:55:00	Temperature	n/a	=	13.7	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	2/24/2011	Oil and Grease	n/a	DNQ	2.8	mg/L	EPA 1664A	2	5	WKL	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
ME-SCR	2010/11-4	Wet	6/2011 8:55:00	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Chloride	n/a	=	44	mg/L	EPA 300.0	1	5	WKL	D
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Fluoride	n/a	=	0.64	mg/L	EPA 300.0	0.02	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/3/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Calcium	Total	=	140	mg/L	EPA 200.7	0.016	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Magnesium	Total	=	55	mg/L	EPA 200.7	0.012	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	Alkalinity as CaCO3	n/a	=	210	mg/L	SM 2320 B	1.2	10	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	BOD	n/a	=	6.9	mg/L	SM 5210 B	0.1	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/18/2011	COD	n/a	=	49	mg/L	EPA 410.4	1.8	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Hardness as CaCO3	Total	=	590	mg/L	EPA 200.7	0.089	0.66	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/18/2011	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/25/2011	Phenolics	n/a	=	0.044	mg/L	EPA 420.4	0.0016	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/24/2011	Specific Conductance	n/a	=	1300	µmhos/cm	SM 2510 B	0.23	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/18/2011	Total Dissolved Solids	n/a	=	860	mg/L	SM 2540 C	4	10	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Total Organic Carbon	n/a	=	2.9	mg/L	SM 5310 C	0.018	0.6	WKL	D
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/18/2011	Total Suspended Solids	n/a	=	2400	mg/L	SM 2540 D	5	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/18/2011	Turbidity	n/a	=	170	NTU	EPA 180.1	0.024	0.1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/18/2011	Volatile Suspended Solids	n/a	=	260	mg/L	EPA 160.4	3.1	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Aluminum	Dissolved	DNQ	2.5	µg/L	EPA 200.8	0.19	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Aluminum	Total	=	16000	µg/L	EPA 200.8	19	500	WKL	D,GB
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Antimony	Dissolved	DNQ	0.33	µg/L	EPA 200.8	0.008	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Antimony	Total	DNQ	0.37	µg/L	EPA 200.8	0.008	0.5	WKL	GB
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Arsenic	Dissolved	=	0.68	µg/L	EPA 200.8	0.014	0.4	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Arsenic	Total	=	8.2	µg/L	EPA 200.8	0.014	0.4	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Barium	Total	=	210	µg/L	EPA 200.8	0.024	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/3/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/3/2011	Beryllium	Total	=	0.72	µg/L	EPA 200.8	0.022	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Cadmium	Dissolved	DNQ	0.071	µg/L	EPA 200.8	0.013	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Cadmium	Total	=	1.1	µg/L	EPA 200.8	0.013	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Chromium	Dissolved	DNQ	0.16	µg/L	EPA 200.8	0.012	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Chromium	Total	=	34	µg/L	EPA 200.8	0.012	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/25/2011	Chromium VI	n/a	DNQ	0.1	µg/L	EPA 218.6	0.0059	0.3	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Copper	Dissolved	=	1.6	µg/L	EPA 200.8	0.022	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Copper	Total	=	34	µg/L	EPA 200.8	0.022	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Iron	Dissolved	DNQ	15	µg/L	EPA 200.8	0.6	20	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Iron	Total	=	42000	µg/L	EPA 200.8	60	2000	WKL	D
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Lead	Dissolved	DNQ	0.035	µg/L	EPA 200.8	0.017	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Lead	Total	=	11	µg/L	EPA 200.8	0.017	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/3/2011	Mercury	Dissolved	DNQ	16	ng/L	EPA 245.1	3.9	50	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/3/2011	Mercury	Total	=	59	ng/L	EPA 245.1	3.9	50	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Nickel	Dissolved	=	3.8	µg/L	EPA 200.8	0.011	0.8	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Nickel	Total	=	50	µg/L	EPA 200.8	0.011	0.8	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Selenium	Dissolved	=	3.2	µg/L	EPA 200.8	0.017	0.4	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Selenium	Total	=	4.8	µg/L	EPA 200.8	0.017	0.4	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Silver	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.008	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Silver	Total	=	0.2	µg/L	EPA 200.8	0.008	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Thallium	Total	=	0.49	µg/L	EPA 200.8	0.02	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Zinc	Dissolved	DNQ	1.5	µg/L	EPA 200.8	0.3	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Zinc	Total	=	100	µg/L	EPA 200.8	0.3	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Ammonia as N	n/a	=	0.2	mg/L	EPA 350.1	0.048	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	1.4	mg/L	EPA 353.2	0.01	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/7/2011	Phosphorus as P	Dissolved	=	0.019	mg/L	EPA 365.1	0.0014	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/7/2011	Phosphorus as P	Total	=	1.3	mg/L	EPA 365.1	0.07	0.5	WKL	D
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/7/2011	TKN	n/a	=	2.1	mg/L	EPA 351.2	0.074	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.2	µg/L	EPA 525.2	1.1	3	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Diethyl phthalate	n/a	DNQ	0.29	µg/L	EPA 625	0.23	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/7/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	DCPA (Dacthal)	n/a	=	0.56	µg/L	EPA 515.3	0.02	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/1/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	2/23/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00	3/4/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/4/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	2/22/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Malathion	n/a	=	0.14	µg/L	EPA 525.2	0.0076	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/4/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/4/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/4/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	2/23/2011	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	2/23/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/4/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/4/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/4/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/4/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/4/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/1/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
ME-SCR	2010/11-4	Wet	7/2011 9:50:00 A	3/4/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
ME-SCR	2010/11-5	Dry	8/2011 9:40:00 A	5/2/2011	Chloride	n/a	=	39	mg/L	EPA 300.0	0.1	0.5	WKL	
ME-SCR	2010/11-5	Dry	8/2011 9:40:00 A	5/2/2011	Fluoride	n/a	=	0.66	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-SCR	2010/11-5	Dry	8/2011 9:40:00 A	5/2/2011	Perchlorate	n/a	<	1.3	µg/L	EPA 314.0	1.3	4	WKL	D
ME-SCR	2010/11-5	Dry	8/2011 9:40:00	9/2011 8:10:00 A	E. Coli	n/a	=	10	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2010/11-5	Dry	8/2011 9:40:00	9/2011 2:20:00	Enterococcus	n/a	<	10	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-SCR	2010/11-5	Dry	8/2011 9:40:00	/2011 12:12:00	Fecal Coliform	n/a	=	30	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2010/11-5	Dry	8/2011 9:40:00	9/2011 8:10:00 A	Total Coliform	n/a	=	1789	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2010/11-5	Dry	8/2011 9:40:00 A	5/5/2011	Calcium	Total	=	120	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-SCR	2010/11-5	Dry	8/2011 9:40:00 A	5/5/2011	Magnesium	Total	=	42	mg/L	EPA 200.7	0.012	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Alkalinity as CaCO3	n/a	=	210	mg/L	SM 2320 B	1.2	10	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	BOD	n/a	DNQ	1.5	mg/L	SM 5210 B	0.1	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/2/2011	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	3/2011 9:40:00	Conductivity	n/a	=	943	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	3/2011 9:40:00	DO	n/a	=	9.54	mg/L	Field Meter	-88	0.3	Field Crew	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	3/2011 9:40:00	DO	n/a	=	97.3	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/5/2011	Hardness as CaCO3	Total	=	470	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	4/29/2011	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	3/2011 9:40:00	pH	n/a	=	8.13	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Phenolics	n/a	=	0.042	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	3/2011 9:40:00	Salinity	n/a	=	0.0000006	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Specific Conductance	n/a	=	950	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	3/2011 9:40:00	Specific Conductance	n/a	=	1136	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	3/2011 9:40:00	Temperature	n/a	=	16.1	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Total Dissolved Solids	n/a	=	810	mg/L	SM 2540 C	4	10	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	4/29/2011	Total Organic Carbon	n/a	=	1.9	mg/L	SM 5310 C	0.009	0.3	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Total Suspended Solids	n/a	=	160	mg/L	SM 2540 D	5	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	4/29/2011	Turbidity	n/a	=	32	NTU	EPA 180.1	0.024	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Volatile Suspended Solids	n/a	=	13	mg/L	EPA 160.4	3.1	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/2/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/2/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Aluminum	Dissolved	DNQ	4.9	µg/L	EPA 200.8	0.19	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Aluminum	Total	=	2300	µg/L	EPA 200.8	0.19	5	WKL	GB
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Antimony	Dissolved	DNQ	0.25	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Antimony	Total	DNQ	0.29	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Arsenic	Dissolved	=	0.77	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Arsenic	Total	=	2	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Barium	Total	=	72	µg/L	EPA 200.8	0.024	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Beryllium	Total	=	0.12	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Cadmium	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Cadmium	Total	=	0.28	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Chromium	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Chromium	Total	=	4.1	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/7/2011	Chromium VI	n/a	DNQ	0.1	µg/L	EPA 218.6	0.03	1.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Copper	Dissolved	=	1.2	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Copper	Total	=	7	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Iron	Dissolved	DNQ	3.2	µg/L	EPA 200.8	0.6	20	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Iron	Total	=	4200	µg/L	EPA 200.8	0.6	20	WKL	GB
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Lead	Total	=	2	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Mercury	Total	DNQ	13	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Nickel	Dissolved	=	1.3	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Nickel	Total	=	5.7	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Selenium	Dissolved	=	2.9	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Selenium	Total	=	2.9	µg/L	EPA 200.8	0.017	0.4	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/9/2011	Silver	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/9/2011	Silver	Total	DNQ	0.02	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/9/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/9/2011	Thallium	Total	DNQ	0.05	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/9/2011	Zinc	Dissolved	DNQ	1.4	µg/L	EPA 200.8	0.3	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/9/2011	Zinc	Total	=	15	µg/L	EPA 200.8	0.3	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/2/2011	Ammonia as N	n/a	DNQ	0.063	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	4/29/2011	Nitrate + Nitrite as N	n/a	=	1.1	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Phosphorus as P	Dissolved	=	0.027	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Phosphorus as P	Total	=	0.22	mg/L	EPA 365.1	0.0028	0.02	WKL	D
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/5/2011	TKN	n/a	=	0.37	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	4/29/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	EUM
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/7/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/7/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	Diethyl phthalate	n/a	DNQ	0.58	µg/L	EPA 625	0.23	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/7/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/7/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/7/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	4/29/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/7/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/7/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Phenol	n/a	DNQ	0.39	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/7/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/12/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	4/29/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Malathion	n/a	=	0.016	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00	5/12/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/4/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/4/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2010/11-1	Wet	5/2010 5:00:00	7/2010 5:20:00 A	E. Coli	n/a	=	399	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-VR2	2010/11-1	Wet	5/2010 5:00:00	1/2010 11:10:00	Enterococcus	n/a	=	222	MPN/100 mL	Enterolert	10	10	VCHCA	D
ME-VR2	2010/11-1	Wet	5/2010 5:00:00	1/2010 11:18:00	Fecal Coliform	n/a	=	500	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-VR2	2010/11-1	Wet	5/2010 5:00:00	7/2010 5:20:00 A	Total Coliform	n/a	=	15531	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-VR2	2010/11-1	Wet	5/2010 5:00:00	5/2010 5:00:00 A	Conductivity	n/a	=	845	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2010/11-1	Wet	5/2010 5:00:00 A	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
ME-VR2	2010/11-1	Wet	5/2010 5:00:00	5/2010 5:00:00 A	DO	n/a	=	73.9	%	Field Meter	-88	0.1	Field Crew	
ME-VR2	2010/11-1	Wet	5/2010 5:00:00	5/2010 5:00:00 A	DO	n/a	=	7.1	mg/L	Field Meter	-88	0.3	Field Crew	
ME-VR2	2010/11-1	Wet	5/2010 5:00:00	5/2010 5:00:00 A	pH	n/a	=	7.84	pH Units	Field Meter	-88	0.01	Field Crew	
ME-VR2	2010/11-1	Wet	5/2010 5:00:00	5/2010 5:00:00 A	Salinity	n/a	=	0.0000005	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-VR2	2010/11-1	Wet	5/2010 5:00:00	5/2010 5:00:00 A	Specific Conductance	n/a	=	996	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2010/11-1	Wet	5/2010 5:00:00	5/2010 5:00:00 A	Temperature	n/a	=	17.3	°C	Field Meter	-88	0.1	Field Crew	
ME-VR2	2010/11-1	Wet	5/2010 5:00:00 A	10/12/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	X
ME-VR2	2010/11-1	Wet	5/2010 5:00:00 A	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
ME-VR2	2010/11-1	Wet	5/2010 5:00:00 A	10/8/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
ME-VR2	2010/11-1	Wet	5/2010 5:00:00 A	10/8/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/13/2010	Chloride	n/a	=	75	mg/L	EPA 300.0	0.1	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/13/2010	Fluoride	n/a	=	0.39	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/14/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/13/2010	Calcium	Total	=	130	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/13/2010	Magnesium	Total	=	42	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	9/2010 1:44:00	Alkalinity as CaCO3	n/a	=	260	mg/L	SM 2320 B	1.2	10	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/13/2010	BOD	n/a	=	6.4	mg/L	SM 5210 B	0.1	2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/11/2010	COD	n/a	=	22	mg/L	EPA 410.4	1.8	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/13/2010	Hardness as CaCO3	Total	=	490	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/9/2010	MBAS	n/a	DNQ	0.026	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	8/2010 3:20:00	Phenolics	n/a	=	0.061	mg/L	EPA 420.4	0.0016	0.01	WKL	GB
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/19/2010	Specific Conductance	n/a	=	1200	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	3/2010 5:45:00	Total Dissolved Solids	n/a	=	860	mg/L	SM 2540 C	4	10	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	0/2010 9:40:00	Total Organic Carbon	n/a	=	7	mg/L	SM 5310 C	0.32	3	WKL	D
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	17	mg/L	SM 2540 D	5	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	8/2010 4:14:00	Turbidity	n/a	=	23	NTU	EPA 180.1	0.024	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	6	mg/L	EPA 160.4	3.1	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/13/2010	Aluminum	Dissolved	DNQ	4.2	µg/L	EPA 200.8	0.19	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Aluminum	Total	=	290	µg/L	EPA 200.8	0.19	5	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Antimony	Dissolved	DNQ	0.21	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Antimony	Total	DNQ	0.22	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Arsenic	Total	=	2.4	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Cadmium	Total	=	0.14	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Chromium	Dissolved	DNQ	0.081	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Chromium	Total	=	0.88	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/9/2010	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Copper	Dissolved	=	2.8	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Copper	Total	=	3.8	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Iron	Dissolved	=	140	µg/L	EPA 200.8	0.6	20	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Iron	Total	=	1600	µg/L	EPA 200.8	0.6	20	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Lead	Dissolved	DNQ	0.032	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Lead	Total	=	0.37	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/18/2010	Mercury	Dissolved	DNQ	31	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/18/2010	Mercury	Total	DNQ	32	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Nickel	Dissolved	=	4.8	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Nickel	Total	=	6.6	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Selenium	Dissolved	=	0.9	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Selenium	Total	=	1	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Silver	Total	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Zinc	Dissolved	DNQ	4.6	µg/L	EPA 200.8	0.3	5	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/13/2010	Zinc	Total	=	12	µg/L	EPA 200.8	0.3	5	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/20/2010	Ammonia as N	n/a	=	0.13	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	/2010 11:32:00	Nitrate + Nitrite as N	n/a	=	0.3	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	/2010 11:32:00	Nitrate as N	n/a	=	0.3	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/26/2010	Phosphorus as P	Dissolved	=	0.044	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/26/2010	Phosphorus as P	Total	=	0.19	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/20/2010	TKN	n/a	=	0.73	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/20/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/20/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/20/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/20/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/20/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/22/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/22/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/22/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/22/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/22/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/20/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-VR2	2010/11-1	Wet	/2010 12:20:00	10/20/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/22/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/22/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/22/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/22/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/22/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/22/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/22/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/22/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/20/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Diazinon	n/a	=	0.051	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	8/2010 4:41:00	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Heptachlor	n/a	DNQ	0.0027	µg/L	EPA 608	0.0017	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Malathion	n/a	=	0.076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/16/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	11/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2010/11-1	Wet	7/2010 12:20:00	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	1/2010 3:30:00	E. Coli	n/a	=	6131	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	1/2010 9:15:00	Enterococcus	n/a	=	11840	MPN/100 mL	Enterolert	100	100	VCHCA	D
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	/2010 10:08:00	Fecal Coliform	n/a	=	5000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	1/2010 3:30:00	Total Coliform	n/a	=	770100	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	Conductivity	n/a	=	700	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	DO	n/a	=	8.18	mg/L	Field Meter	-88	0.3	Field Crew	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	DO	n/a	=	81.1	%	Field Meter	-88	0.1	Field Crew	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	pH	n/a	=	7.89	pH Units	Field Meter	-88	0.01	Field Crew	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	Salinity	n/a	=	0.0000005	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	Specific Conductance	n/a	=	900	µmhos/cm	Field Meter	-88	1	Field Crew	

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ME-VR2	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	Temperature	n/a	=	14.8	°C	Field Meter	-88	0.1	Field Crew	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	11/10/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	11/3/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 4:20:00	11/3/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/4/2010	Chloride	n/a	=	71	mg/L	EPA 300.0	0.1	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/4/2010	Fluoride	n/a	=	0.38	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/9/2010	Perchlorate	n/a	=	2.3	µg/L	EPA 314.0	0.82	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/5/2010	Calcium	Total	=	110	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/5/2010	Magnesium	Total	=	30	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	Alkalinity as CaCO3	n/a	=	240	mg/L	SM 2320 B	1.2	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/4/2010	BOD	n/a	=	4.6	mg/L	SM 5210 B	0.1	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/3/2010	COD	n/a	=	7.2	mg/L	EPA 410.4	1.8	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/5/2010	Hardness as CaCO3	Total	=	390	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	0/2010 11:45:00	MBAS	n/a	DNQ	0.038	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Phenolics	n/a	=	0.074	mg/L	EPA 420.4	0.0016	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/4/2010	Specific Conductance	n/a	=	1000	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/5/2010	Total Dissolved Solids	n/a	=	710	mg/L	SM 2540 C	4	10	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Total Organic Carbon	n/a	=	4.1	mg/L	SM 5310 C	0.064	0.6	WKL	D
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/5/2010	Total Suspended Solids	n/a	=	22	mg/L	SM 2540 D	5	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	0/2010 8:26:00	Turbidity	n/a	=	15	NTU	EPA 180.1	0.024	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/5/2010	Volatile Suspended Solids	n/a	DNQ	4	mg/L	EPA 160.4	3.1	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Aluminum	Dissolved	DNQ	3.2	µg/L	EPA 200.8	0.19	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Aluminum	Total	=	270	µg/L	EPA 200.8	0.19	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Antimony	Dissolved	DNQ	0.15	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Antimony	Total	DNQ	0.16	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Arsenic	Dissolved	=	0.8	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Arsenic	Total	=	1	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Cadmium	Dissolved	DNQ	0.055	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Cadmium	Total	=	0.1	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Chromium	Dissolved	DNQ	0.065	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Chromium	Total	=	0.82	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/5/2010	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Copper	Dissolved	=	1.9	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Copper	Total	=	2.9	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Iron	Dissolved	=	33	µg/L	EPA 200.8	0.6	20	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Iron	Total	=	750	µg/L	EPA 200.8	0.6	20	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Lead	Dissolved	DNQ	0.018	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Lead	Total	=	0.33	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/11/2010	Mercury	Dissolved	DNQ	27	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/11/2010	Mercury	Total	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Nickel	Dissolved	=	3.3	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Nickel	Total	=	4.4	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Selenium	Dissolved	=	2	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Selenium	Total	=	2.1	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	

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ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Silver	Total	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Zinc	Dissolved	DNQ	2.6	µg/L	EPA 200.8	0.3	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/10/2010	Zinc	Total	DNQ	4.4	µg/L	EPA 200.8	0.3	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Ammonia as N	n/a	DNQ	0.077	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	0/2010 9:02:00	Nitrate + Nitrite as N	n/a	=	0.25	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	0/2010 9:02:00	Nitrate as N	n/a	=	0.25	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/18/2010	Phosphorus as P	Dissolved	=	0.1	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/18/2010	Phosphorus as P	Total	=	0.17	mg/L	EPA 365.1	0.0014	0.01	WKL	GB
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/9/2010	TKN	n/a	=	0.51	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2	µg/L	EPA 525.2	1.1	3	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/16/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Chlorpyrifos	n/a	=	0.4	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/4/2010	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/6/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/14/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	12/1/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2010/11-2	Wet	0/2010 9:00:00	11/24/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	7/2011 5:45:00	E. Coli	n/a	=	384	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	/2011 11:35:00	Enterococcus	n/a	=	429	MPN/100 mL	Enterolert	10	10	VCHCA	D
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	9/2011 9:38:00	Fecal Coliform	n/a	=	900	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	7/2011 5:45:00	Total Coliform	n/a	=	15531	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	6/2011 5:40:00	Conductivity	n/a	=	823	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	3/1/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	6/2011 5:40:00	DO	n/a	=	78.4	%	Field Meter	-88	0.1	Field Crew	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	6/2011 5:40:00	DO	n/a	=	8.02	mg/L	Field Meter	-88	0.3	Field Crew	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	6/2011 5:40:00	pH	n/a	=	7.8	pH Units	Field Meter	-88	0.01	Field Crew	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	6/2011 5:40:00	Salinity	n/a	=	0.0000005	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	6/2011 5:40:00	Specific Conductance	n/a	=	1034	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	6/2011 5:40:00	Temperature	n/a	=	14.3	°C	Field Meter	-88	0.1	Field Crew	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	2/24/2011	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
ME-VR2	2010/11-4	Wet	6/2011 5:40:00	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Chloride	n/a	=	53	mg/L	EPA 300.0	1	5	WKL	D
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Fluoride	n/a	=	0.44	mg/L	EPA 300.0	0.02	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/3/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Calcium	Total	=	110	mg/L	EPA 200.7	0.016	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Magnesium	Total	=	33	mg/L	EPA 200.7	0.012	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	Alkalinity as CaCO3	n/a	=	240	mg/L	SM 2320 B	1.2	10	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	BOD	n/a	=	4.3	mg/L	SM 5210 B	0.1	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/18/2011	COD	n/a	=	7.1	mg/L	EPA 410.4	1.8	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Hardness as CaCO3	Total	=	420	mg/L	EPA 200.7	0.089	0.66	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/18/2011	MBAS	n/a	DNQ	0.022	mg/L	SM 5540 C	0.019	0.05	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/25/2011	Phenolics	n/a	=	0.045	mg/L	EPA 420.4	0.0016	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/24/2011	Specific Conductance	n/a	=	1100	µmhos/cm	SM 2510 B	0.23	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/18/2011	Total Dissolved Solids	n/a	=	730	mg/L	SM 2540 C	4	10	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Total Organic Carbon	n/a	=	2.5	mg/L	SM 5310 C	0.018	0.6	WKL	D
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/18/2011	Total Suspended Solids	n/a	=	17	mg/L	SM 2540 D	5	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/18/2011	Turbidity	n/a	=	9.6	NTU	EPA 180.1	0.024	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/18/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Aluminum	Dissolved	=	5.4	µg/L	EPA 200.8	0.19	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Aluminum	Total	=	180	µg/L	EPA 200.8	0.19	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Antimony	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.008	0.5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Antimony	Total	DNQ	0.16	µg/L	EPA 200.8	0.008	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Arsenic	Dissolved	=	0.51	µg/L	EPA 200.8	0.014	0.4	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Arsenic	Total	=	0.51	µg/L	EPA 200.8	0.014	0.4	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/3/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/3/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Cadmium	Dissolved	DNQ	0.035	µg/L	EPA 200.8	0.013	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Cadmium	Total	DNQ	0.068	µg/L	EPA 200.8	0.013	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Chromium	Dissolved	DNQ	0.14	µg/L	EPA 200.8	0.012	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Chromium	Total	=	0.59	µg/L	EPA 200.8	0.012	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/25/2011	Chromium VI	n/a	DNQ	0.14	µg/L	EPA 218.6	0.0059	0.3	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Copper	Dissolved	=	1.1	µg/L	EPA 200.8	0.022	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Copper	Total	=	1.5	µg/L	EPA 200.8	0.022	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Iron	Dissolved	=	23	µg/L	EPA 200.8	0.6	20	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Iron	Total	=	380	µg/L	EPA 200.8	0.6	20	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Lead	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.017	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Lead	Total	=	0.21	µg/L	EPA 200.8	0.017	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/3/2011	Mercury	Dissolved	DNQ	16	ng/L	EPA 245.1	3.9	50	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/3/2011	Mercury	Total	DNQ	18	ng/L	EPA 245.1	3.9	50	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Nickel	Dissolved	=	2.6	µg/L	EPA 200.8	0.011	0.8	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Nickel	Total	=	3.3	µg/L	EPA 200.8	0.011	0.8	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Selenium	Dissolved	=	1.8	µg/L	EPA 200.8	0.017	0.4	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Selenium	Total	=	1.9	µg/L	EPA 200.8	0.017	0.4	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Silver	Dissolved	DNQ	0.012	µg/L	EPA 200.8	0.008	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Silver	Total	DNQ	0.041	µg/L	EPA 200.8	0.008	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Zinc	Dissolved	DNQ	1.6	µg/L	EPA 200.8	0.3	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Zinc	Total	DNQ	2.4	µg/L	EPA 200.8	0.3	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/4/2011	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	1.3	mg/L	EPA 353.2	0.01	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/18/2011	Nitrate as N	n/a	=	1.3	mg/L	EPA 353.2	0.041	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Phosphorus as P	Dissolved	=	0.02	mg/L	EPA 365.1	0.0014	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Phosphorus as P	Total	=	0.054	mg/L	EPA 365.1	0.0014	0.01	WKL	GB
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/3/2011	TKN	n/a	=	0.35	mg/L	EPA 351.2	0.074	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/22/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	2/23/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/2/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	IL
ME-VR2	2010/11-4	Wet	7/2011 12:16:00	3/7/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Chloride	n/a	=	46	mg/L	EPA 300.0	0.1	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Fluoride	n/a	=	0.46	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Perchlorate	n/a	<	1.3	µg/L	EPA 314.0	1.3	4	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Calcium	Total	=	120	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Magnesium	Total	=	33	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	Alkalinity as CaCO3	n/a	=	240	mg/L	SM 2320 B	1.2	10	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	BOD	n/a	DNQ	1.1	mg/L	SM 5210 B	0.1	2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/20/2011	COD	n/a	=	16	mg/L	EPA 410.4	1.8	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Hardness as CaCO3	Total	=	440	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/20/2011	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	5/2/2011	Phenolics	n/a	=	0.042	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Specific Conductance	n/a	=	860	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Total Dissolved Solids	n/a	=	760	mg/L	SM 2540 C	4	10	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	Total Organic Carbon	n/a	=	1.9	mg/L	SM 5310 C	0.027	0.9	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/21/2011	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/20/2011	Turbidity	n/a	=	0.54	NTU	EPA 180.1	0.024	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/21/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Aluminum	Dissolved	DNQ	2.1	µg/L	EPA 200.8	0.19	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Aluminum	Total	=	10	µg/L	EPA 200.8	0.19	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Antimony	Dissolved	DNQ	0.13	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Antimony	Total	DNQ	0.11	µg/L	EPA 200.8	0.008	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Arsenic	Dissolved	DNQ	0.35	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Arsenic	Total	DNQ	0.38	µg/L	EPA 200.8	0.014	0.4	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Cadmium	Dissolved	DNQ	0.055	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Cadmium	Total	DNQ	0.059	µg/L	EPA 200.8	0.013	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Chromium	Dissolved	DNQ	0.14	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Chromium	Total	DNQ	0.18	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/21/2011	Chromium VI	n/a	DNQ	0.069	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Copper	Dissolved	=	0.92	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Copper	Total	=	0.99	µg/L	EPA 200.8	0.022	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Iron	Dissolved	=	20	µg/L	EPA 200.8	0.6	20	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Iron	Total	=	43	µg/L	EPA 200.8	0.6	20	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Lead	Total	DNQ	0.024	µg/L	EPA 200.8	0.017	0.2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Mercury	Dissolved	DNQ	32	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Mercury	Total	DNQ	30	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Nickel	Dissolved	=	2.6	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Nickel	Total	=	2.6	µg/L	EPA 200.8	0.011	0.8	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Selenium	Dissolved	=	2.3	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Selenium	Total	=	2.1	µg/L	EPA 200.8	0.017	0.4	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Silver	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Silver	Total	DNQ	0.027	µg/L	EPA 200.8	0.008	0.2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Zinc	Dissolved	DNQ	1.6	µg/L	EPA 200.8	0.3	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Zinc	Total	DNQ	0.83	µg/L	EPA 200.8	0.3	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/20/2011	Nitrate + Nitrite as N	n/a	=	1.6	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/20/2011	Nitrate as N	n/a	=	1.6	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	Phosphorus as P	Dissolved	=	0.014	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	Phosphorus as P	Total	=	0.017	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	5/4/2011	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/26/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/25/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	5/3/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	5/3/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	5/3/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	5/3/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/22/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	5/3/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	5/3/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	5/3/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/28/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	5/3/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:30:00	4/29/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/28/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/22/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/29/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/29/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/29/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/29/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/29/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/22/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/29/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/29/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/21/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/29/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/29/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/29/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/22/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/22/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/22/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/28/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/28/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/22/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/22/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/22/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/22/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/22/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/29/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	5/3/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:30:00	4/22/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2010/11-5	Dry	)/2011 12:35:00	)/2011 10:00:00	E. Coli	n/a	=	52	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2010/11-5	Dry	)/2011 12:35:00	0/2011 3:38:00	Enterococcus	n/a	<	10	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-VR2	2010/11-5	Dry	)/2011 12:35:00	3/2011 1:20:00	Fecal Coliform	n/a	=	23	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-VR2	2010/11-5	Dry	)/2011 12:35:00	)/2011 10:00:00	Total Coliform	n/a	=	1017	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2010/11-5	Dry	)/2011 12:35:00	)/2011 12:35:00	Conductivity	n/a	=	860	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2010/11-5	Dry	)/2011 12:35:00	4/27/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2010/11-5	Dry	0/2011 12:35:00	0/2011 12:35:00	DO	n/a	=	102.8	%	Field Meter	-88	0.1	Field Crew	
ME-VR2	2010/11-5	Dry	0/2011 12:35:00	0/2011 12:35:00	DO	n/a	=	9.97	mg/L	Field Meter	-88	0.3	Field Crew	
ME-VR2	2010/11-5	Dry	0/2011 12:35:00	0/2011 12:35:00	pH	n/a	=	8.29	pH Units	Field Meter	-88	0.01	Field Crew	
ME-VR2	2010/11-5	Dry	0/2011 12:35:00	0/2011 12:35:00	Salinity	n/a	=	0.5	mg/L	Field Meter	-88	0.0000001	Field Crew	
ME-VR2	2010/11-5	Dry	0/2011 12:35:00	0/2011 12:35:00	Specific Conductance	n/a	=	1019	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2010/11-5	Dry	0/2011 12:35:00	0/2011 12:35:00	Temperature	n/a	=	16.8	°C	Field Meter	-88	0.1	Field Crew	
ME-VR2	2010/11-5	Dry	0/2011 12:35:00	4/22/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:35:00	4/22/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:35:00	4/20/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
ME-VR2	2010/11-5	Dry	0/2011 12:35:00	4/20/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	7/2010 4:10:00	E. Coli	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	8/2010 8:45:00	Fecal Coliform	n/a	=	46000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	7/2010 4:10:00	Total Coliform	n/a	=	770100	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	6/2010 2:45:00	Conductivity	n/a	=	141.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	6/2010 2:45:00	DO	n/a	=	8.9	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	6/2010 2:45:00	pH	n/a	=	7.34	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	6/2010 2:45:00	Temperature	n/a	=	17.3	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	10/12/2010	Oil and Grease	n/a	DNQ	2.5	mg/L	EPA 1664A	2	5	WKL	J
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	10/8/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
MO-CAM	2010/11-1	Wet	6/2010 2:45:00	10/8/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	1/2010 11:57:00	Chloride	n/a	=	12	mg/L	EPA 300.0	0.2	1	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/11/2010	Fluoride	n/a	=	0.11	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/14/2010	Perchlorate	n/a	=	2.1	µg/L	EPA 314.0	0.82	2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Calcium	Total	=	16	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Magnesium	Total	=	3.7	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	9/2010 4:31:00	Alkalinity as CaCO3	n/a	=	53	mg/L	SM 2320 B	1.2	2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	BOD	n/a	=	17	mg/L	SM 5210 B	0.1	2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/8/2010	COD	n/a	=	93	mg/L	EPA 410.4	1.8	5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Hardness as CaCO3	Total	=	55	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/8/2010	MBAS	n/a	=	0.17	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Phenolics	n/a	=	0.068	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Specific Conductance	n/a	=	170	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/11/2010	Total Dissolved Solids	n/a	=	120	mg/L	SM 2540 C	4	10	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	4/2010 11:37:00	Total Organic Carbon	n/a	=	18	mg/L	SM 5310 C	0.64	6	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	110	mg/L	SM 2540 D	5	5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	7/2010 6:27:00	Turbidity	n/a	=	22	NTU	EPA 180.1	0.024	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	31	mg/L	EPA 160.4	3.1	5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Aluminum	Dissolved	=	25	µg/L	EPA 200.8	0.19	5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Aluminum	Total	=	2000	µg/L	EPA 200.8	0.19	5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Antimony	Dissolved	=	0.81	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Antimony	Total	=	1.6	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Arsenic	Dissolved	=	1.3	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Arsenic	Total	=	2.1	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Beryllium	Total	=	0.1	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Cadmium	Dissolved	DNQ	0.076	µg/L	EPA 200.8	0.013	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Cadmium	Total	=	0.38	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Chromium	Dissolved	=	0.93	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Chromium	Total	=	5.8	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	7/2010 10:30:00	Chromium VI	n/a	DNQ	0.092	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Copper	Dissolved	=	13	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Copper	Total	=	45	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Iron	Dissolved	=	77	µg/L	EPA 200.8	0.6	20	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Iron	Total	=	3600	µg/L	EPA 200.8	0.6	20	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Lead	Dissolved	=	0.25	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Lead	Total	=	7.1	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	Mercury	Dissolved	DNQ	36	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	Mercury	Total	=	51	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Nickel	Dissolved	=	4.3	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Nickel	Total	=	9.4	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Selenium	Dissolved	DNQ	0.19	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Selenium	Total	DNQ	0.33	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Silver	Dissolved	DNQ	0.0098	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Silver	Total	DNQ	0.12	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Thallium	Total	DNQ	0.043	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Zinc	Dissolved	=	60	µg/L	EPA 200.8	0.3	5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Zinc	Total	=	190	µg/L	EPA 200.8	0.3	5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/13/2010	Ammonia as N	n/a	=	0.63	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	7/2010 4:23:00	Nitrate + Nitrite as N	n/a	=	0.68	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/20/2010	Phosphorus as P	Dissolved	=	0.38	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/20/2010	Phosphorus as P	Total	=	0.76	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	TKN	n/a	=	2	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	1,2,4-Trichlorobenzene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	1,2-Dichlorobenzene	n/a	<	3	µg/L	EPA 625	3	20	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	1,2-Diphenylhydrazine	n/a	<	3.5	µg/L	EPA 625	3.5	10	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	1,3-Dichlorobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	1,4-Dichlorobenzene	n/a	<	3.2	µg/L	EPA 625	3.2	10	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	2,4-Dinitrotoluene	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	2,6-Dinitrotoluene	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	2-Chloronaphthalene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	3,3'-Dichlorobenzidine	n/a	<	3	µg/L	EPA 625	3	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	4-Bromophenyl phenyl ether	n/a	<	2.3	µg/L	EPA 625	2.3	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	4-Chlorophenyl phenyl ether	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Benzidine	n/a	<	7	µg/L	EPA 625	7	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Bis(2-chloroethoxy)methane	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Bis(2-chloroethyl)ether	n/a	<	4.6	µg/L	EPA 625	4.6	10	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Bis(2-chloroisopropyl)ether	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Butyl benzyl phthalate	n/a	<	10	µg/L	EPA 625	10	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Diethyl phthalate	n/a	DNQ	4.8	µg/L	EPA 625	2.3	20	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Dimethyl phthalate	n/a	<	2.6	µg/L	EPA 625	2.6	20	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Di-n-butylphthalate	n/a	<	5.3	µg/L	EPA 625	5.3	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Di-n-octylphthalate	n/a	<	2.8	µg/L	EPA 625	2.8	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Hexachlorobenzene	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Hexachlorobutadiene	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Hexachlorocyclopentadiene	n/a	<	50	µg/L	EPA 625	50	100	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Hexachloroethane	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Isophorone	n/a	<	3.3	µg/L	EPA 625	3.3	10	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	Nitrobenzene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	N-Nitrosodimethylamine	n/a	<	3.6	µg/L	EPA 625	3.6	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	N-Nitrosodi-N-propylamine	n/a	<	4.1	µg/L	EPA 625	4.1	50	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/19/2010	N-Nitrosodiphenylamine	n/a	<	2.3	µg/L	EPA 625	2.3	10	WKL	D
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/22/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/21/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	4,4'-DDE	n/a	DNQ	0.013	µg/L	EPA 608	0.0025	0.05	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	4,4'-DDT	n/a	DNQ	0.0064	µg/L	EPA 608	0.0031	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	DCPA (Dacthal)	n/a	=	0.16	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/8/2010	Glyphosate	n/a	=	11	µg/L	EPA 547	1.8	5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/15/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/26/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2010/11-1	Wet	6/2010 3:00:00	10/25/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	1/2010 3:30:00	E. Coli	n/a	=	9804	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	/2010 10:00:00	Fecal Coliform	n/a	=	30000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	1/2010 3:30:00	Total Coliform	n/a	=	241920	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	Conductivity	n/a	=	84	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	DO	n/a	=	10.5	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	DO	n/a	=	103.3	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	pH	n/a	=	8.8	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	Specific Conductance	n/a	=	104.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	0/2010 4:20:00	Temperature	n/a	=	14.7	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	11/10/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	11/3/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 4:20:00	11/3/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/4/2010	Chloride	n/a	=	6.7	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/4/2010	Fluoride	n/a	DNQ	0.068	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/9/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/5/2010	Calcium	Total	=	8.2	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/5/2010	Magnesium	Total	=	2.1	mg/L	EPA 200.7	0.012	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/11/2010	Alkalinity as CaCO3	n/a	=	17	mg/L	SM 2320 B	1.2	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/4/2010	BOD	n/a	=	15	mg/L	SM 5210 B	0.1	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/3/2010	COD	n/a	=	94	mg/L	EPA 410.4	1.8	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/5/2010	Hardness as CaCO3	Total	=	29	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	0/2010 11:45:00	MBAS	n/a	=	0.54	mg/L	SM 5540 C	0.095	0.25	WKL	D
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Phenolics	n/a	=	0.031	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/4/2010	Specific Conductance	n/a	=	87	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/5/2010	Total Dissolved Solids	n/a	=	74	mg/L	SM 2540 C	4	10	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Total Organic Carbon	n/a	=	13	mg/L	SM 5310 C	0.32	3	WKL	D
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/5/2010	Total Suspended Solids	n/a	=	110	mg/L	SM 2540 D	5	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	0/2010 8:26:00	Turbidity	n/a	=	53	NTU	EPA 180.1	0.024	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/5/2010	Volatile Suspended Solids	n/a	=	35	mg/L	EPA 160.4	3.1	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Aluminum	Dissolved	=	20	µg/L	EPA 200.8	0.19	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Aluminum	Total	=	1900	µg/L	EPA 200.8	3.8	100	WKL	D
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Antimony	Dissolved	=	0.57	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Antimony	Total	=	1.2	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Arsenic	Dissolved	=	0.75	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Arsenic	Total	=	1.5	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Beryllium	Total	DNQ	0.093	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Cadmium	Dissolved	=	0.15	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Cadmium	Total	=	0.58	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Chromium	Dissolved	=	0.43	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Chromium	Total	=	4.8	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/5/2010	Chromium VI	n/a	DNQ	0.22	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Copper	Dissolved	=	7.5	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Copper	Total	=	25	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Iron	Dissolved	=	37	µg/L	EPA 200.8	0.6	20	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Iron	Total	=	3100	µg/L	EPA 200.8	0.6	20	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Lead	Dissolved	=	0.25	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Lead	Total	=	6.8	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/11/2010	Mercury	Dissolved	DNQ	31	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/11/2010	Mercury	Total	=	63	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Nickel	Dissolved	=	1.8	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Nickel	Total	=	7	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Selenium	Dissolved	DNQ	0.17	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Selenium	Total	DNQ	0.29	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Silver	Total	DNQ	0.076	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Thallium	Total	DNQ	0.034	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Zinc	Dissolved	=	38	µg/L	EPA 200.8	0.3	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/10/2010	Zinc	Total	=	160	µg/L	EPA 200.8	0.3	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Ammonia as N	n/a	=	0.48	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	0/2010 9:02:00	Nitrate + Nitrite as N	n/a	=	0.7	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/18/2010	Phosphorus as P	Dissolved	=	0.31	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/18/2010	Phosphorus as P	Total	=	0.58	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/9/2010	TKN	n/a	=	3.1	mg/L	EPA 351.2	0.074	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Butyl benzyl phthalate	n/a	DNQ	1.8	µg/L	EPA 625	1	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Diethyl phthalate	n/a	=	3.2	µg/L	EPA 625	0.23	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Di-n-butylphthalate	n/a	DNQ	0.82	µg/L	EPA 625	0.53	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Fluoranthene	n/a	DNQ	0.27	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Phenanthrene	n/a	DNQ	0.12	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/16/2010	Pyrene	n/a	DNQ	0.25	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/15/2010	4,4'-DDE	n/a	=	0.063	µg/L	EPA 608	0.0025	0.05	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/15/2010	4,4'-DDT	n/a	=	0.03	µg/L	EPA 608	0.0031	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Chlorpyrifos	n/a	=	0.069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	DCPA (Dacthal)	n/a	DNQ	0.094	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/4/2010	Glyphosate	n/a	=	6.7	µg/L	EPA 547	1.8	5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Malathion	n/a	=	0.23	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/6/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/14/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	12/1/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-2	Wet	0/2010 11:45:00	11/24/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	7/2011 5:00:00	E. Coli	n/a	=	3448	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	0/2011 9:05:00	Fecal Coliform	n/a	=	5000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	7/2011 5:00:00	Total Coliform	n/a	=	198630	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	6/2011 5:30:00	Conductivity	n/a	=	113.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	3/3/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	H
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	6/2011 5:30:00	DO	n/a	=	10.66	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	6/2011 5:30:00	DO	n/a	=	103.3	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	6/2011 5:30:00	pH	n/a	=	7.83	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	6/2011 5:30:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	6/2011 5:30:00	Specific Conductance	n/a	=	130.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	6/2011 5:30:00	Temperature	n/a	=	13.8	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	2/24/2011	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
MO-CAM	2010/11-4	Wet	6/2011 5:30:00	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Chloride	n/a	=	5.4	mg/L	EPA 300.0	0.1	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Fluoride	n/a	DNQ	0.063	mg/L	EPA 300.0	0.02	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/3/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Calcium	Total	=	8	mg/L	EPA 200.7	0.016	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Magnesium	Total	=	1.6	mg/L	EPA 200.7	0.012	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/24/2011	Alkalinity as CaCO3	n/a	=	22	mg/L	SM 2320 B	1.2	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/23/2011	BOD	n/a	=	10	mg/L	SM 5210 B	0.1	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/18/2011	COD	n/a	=	28	mg/L	EPA 410.4	1.8	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Hardness as CaCO3	Total	=	26	mg/L	EPA 200.7	0.089	0.66	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/18/2011	MBAS	n/a	=	0.11	mg/L	SM 5540 C	0.019	0.05	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Phenolics	n/a	=	0.026	mg/L	EPA 420.4	0.0016	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/23/2011	Specific Conductance	n/a	=	90	µmhos/cm	SM 2510 B	0.23	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/18/2011	Total Dissolved Solids	n/a	=	69	mg/L	SM 2540 C	4	10	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Total Organic Carbon	n/a	=	6.4	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/18/2011	Total Suspended Solids	n/a	=	63	mg/L	SM 2540 D	5	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/18/2011	Turbidity	n/a	=	11	NTU	EPA 180.1	0.024	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/18/2011	Volatile Suspended Solids	n/a	=	21	mg/L	EPA 160.4	3.1	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Aluminum	Dissolved	=	13	µg/L	EPA 200.8	0.19	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Aluminum	Total	=	690	µg/L	EPA 200.8	0.19	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Antimony	Dissolved	DNQ	0.47	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Antimony	Total	=	0.7	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Arsenic	Dissolved	=	0.76	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Arsenic	Total	=	1.1	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Beryllium	Total	DNQ	0.042	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Cadmium	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Cadmium	Total	=	0.14	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Chromium	Dissolved	=	0.32	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Chromium	Total	=	2	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Chromium VI	n/a	DNQ	0.16	µg/L	EPA 218.6	0.0059	0.3	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Copper	Dissolved	=	5.1	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Copper	Total	=	10	µg/L	EPA 200.8	0.022	0.5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Iron	Dissolved	=	33	µg/L	EPA 200.8	0.6	20	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Iron	Total	=	1200	µg/L	EPA 200.8	0.6	20	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Lead	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Lead	Total	=	2.3	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/3/2011	Mercury	Dissolved	DNQ	15	ng/L	EPA 245.1	3.9	50	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/3/2011	Mercury	Total	DNQ	30	ng/L	EPA 245.1	3.9	50	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Nickel	Dissolved	=	1.1	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Nickel	Total	=	2.6	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Selenium	Dissolved	DNQ	0.24	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Selenium	Total	DNQ	0.27	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Silver	Dissolved	DNQ	0.027	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Silver	Total	DNQ	0.019	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Zinc	Dissolved	=	24	µg/L	EPA 200.8	0.3	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Zinc	Total	=	53	µg/L	EPA 200.8	0.3	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Ammonia as N	n/a	=	0.31	mg/L	EPA 350.1	0.048	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	0.54	mg/L	EPA 353.2	0.01	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/7/2011	Phosphorus as P	Dissolved	=	0.18	mg/L	EPA 365.1	0.0014	0.01	WKL	GB
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/7/2011	Phosphorus as P	Total	=	0.29	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/7/2011	TKN	n/a	=	1.1	mg/L	EPA 351.2	0.074	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	GB
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Benzo(b)fluoranthene	n/a	DNQ	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Benzo(g,h,i)perylene	n/a	DNQ	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.8	µg/L	EPA 525.2	1.1	3	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Diethyl phthalate	n/a	=	3.3	µg/L	EPA 625	0.23	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Fluoranthene	n/a	DNQ	0.26	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	IL
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	DNQ	0.16	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/2/2011	Pyrene	n/a	DNQ	0.22	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	4,4'-DDE	n/a	DNQ	0.017	µg/L	EPA 608	0.0025	0.05	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/7/2011	4,4'-DDT	n/a	DNQ	0.0068	µg/L	EPA 608	0.0031	0.01	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	IL
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	IL
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EU
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/4/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	IL
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/22/2011	Glyphosate	n/a	=	24	µg/L	EPA 547	1.8	5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00	2/25/2011	Malathion	n/a	=	0.12	µg/L	EPA 525.2	0.0076	0.01	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	2/25/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	2/25/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	3/4/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	3/4/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	2/25/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	3/4/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	2/25/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	2/22/2011	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	2/25/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	2/22/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	3/4/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	3/4/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	2/25/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	3/4/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	2/25/2011	Stirophos (Tetrachlorvinphos)	n/a	DNQ	0.0058	µg/L	EPA 525.2	0.0031	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	3/4/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	3/4/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	2/25/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	2/25/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-CAM	2010/11-4	Wet	7/2011 9:00:00 A	3/4/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/3/2011	Chloride	n/a	=	110	mg/L	EPA 300.0	1	5	WKL	D
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/2/2011	Fluoride	n/a	=	0.55	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/2/2011	Perchlorate	n/a	<	1.3	µg/L	EPA 314.0	1.3	4	WKL	D
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	9/2011 8:10:00 A	E. Coli	n/a	=	697	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	/2011 12:10:00 I	Fecal Coliform	n/a	=	460	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	9/2011 8:10:00 A	Total Coliform	n/a	=	34480	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/5/2011	Calcium	Total	=	84	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/5/2011	Magnesium	Total	=	26	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/6/2011	Alkalinity as CaCO3	n/a	=	180	mg/L	SM 2320 B	1.2	10	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/4/2011	BOD	n/a	=	2.9	mg/L	SM 5210 B	0.1	2	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/2/2011	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	9/2011 10:25:00	Conductivity	n/a	=	247.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/6/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	9/2011 10:25:00	DO	n/a	=	176.1	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	9/2011 10:25:00	DO	n/a	=	13.18	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/5/2011	Hardness as CaCO3	Total	=	310	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	4/29/2011	MBAS	n/a	DNQ	0.043	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	9/2011 10:25:00	pH	n/a	=	8.89	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/9/2011	Phenolics	n/a	=	0.048	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	9/2011 10:25:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/4/2011	Specific Conductance	n/a	=	960	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	9/2011 10:25:00	Specific Conductance	n/a	=	254.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	9/2011 10:25:00	Temperature	n/a	=	23.4	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/4/2011	Total Dissolved Solids	n/a	=	730	mg/L	SM 2540 C	4	10	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	4/29/2011	Total Organic Carbon	n/a	=	4.1	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-CAM	2010/11-5	Dry	9/2011 10:25:00	5/4/2011	Total Suspended Solids	n/a	=	6	mg/L	SM 2540 D	5	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-5	Dry	/2011 10:25:00	4/29/2011	Turbidity	n/a	=	4.9	NTU	EPA 180.1	0.024	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/2/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/2/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Aluminum	Dissolved	=	7.6	µg/L	EPA 200.8	0.19	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Aluminum	Total	=	110	µg/L	EPA 200.8	0.19	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Antimony	Dissolved	DNQ	0.18	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Antimony	Total	DNQ	0.17	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Arsenic	Total	=	1.4	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Cadmium	Total	DNQ	0.06	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Chromium	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Chromium	Total	=	0.3	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Chromium VI	n/a	<	0.03	µg/L	EPA 218.6	0.03	1.5	WKL	D
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Copper	Dissolved	=	4.4	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Copper	Total	=	4.8	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Iron	Dissolved	DNQ	5	µg/L	EPA 200.8	0.6	20	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Iron	Total	=	150	µg/L	EPA 200.8	0.6	20	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Lead	Total	DNQ	0.14	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Mercury	Total	DNQ	6	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Nickel	Dissolved	=	1.3	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Nickel	Total	=	1.4	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Selenium	Dissolved	DNQ	0.14	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Selenium	Total	DNQ	0.14	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Silver	Total	DNQ	0.01	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/9/2011	Zinc	Dissolved	DNQ	1.9	µg/L	EPA 200.8	0.3	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Zinc	Total	DNQ	2.4	µg/L	EPA 200.8	0.3	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/2/2011	Ammonia as N	n/a	=	0.17	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	4/29/2011	Nitrate + Nitrite as N	n/a	=	0.12	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Phosphorus as P	Dissolved	=	0.21	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Phosphorus as P	Total	=	0.27	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/5/2011	TKN	n/a	=	0.71	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	4/29/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	EUM
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Diethyl phthalate	n/a	=	4.5	µg/L	EPA 625	0.23	2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	4/29/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/11/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Phenol	n/a	DNQ	0.95	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/7/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/12/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	DCPA (Dacthal)	n/a	=	0.59	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	4/29/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/12/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/4/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/10/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/16/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2010/11-5	Dry	/2011 10:25:00	5/6/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2010/11-1	Wet	5/2010 7:00:00	7/2010 5:20:00	E. Coli	n/a	=	5717	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-FIL	2010/11-1	Wet	5/2010 7:00:00	/2010 10:20:00	Fecal Coliform	n/a	=	30000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2010/11-1	Wet	5/2010 7:00:00	7/2010 5:20:00	Total Coliform	n/a	=	120330	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-FIL	2010/11-1	Wet	5/2010 7:00:00	5/2010 7:00:00	Conductivity	n/a	=	145.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2010/11-1	Wet	5/2010 7:00:00	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB

Appendix G
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Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-1	Wet	6/2010 7:00:00	6/2010 7:00:00	DO	n/a	=	73.1	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2010/11-1	Wet	6/2010 7:00:00	6/2010 7:00:00	DO	n/a	=	7.01	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2010/11-1	Wet	6/2010 7:00:00	6/2010 7:00:00	pH	n/a	=	7.85	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2010/11-1	Wet	6/2010 7:00:00	6/2010 7:00:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-FIL	2010/11-1	Wet	6/2010 7:00:00	6/2010 7:00:00	Specific Conductance	n/a	=	171.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2010/11-1	Wet	6/2010 7:00:00	6/2010 7:00:00	Temperature	n/a	=	17.4	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2010/11-1	Wet	6/2010 7:00:00	10/12/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	X
MO-FIL	2010/11-1	Wet	6/2010 7:00:00	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
MO-FIL	2010/11-1	Wet	6/2010 7:00:00	10/11/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
MO-FIL	2010/11-1	Wet	6/2010 7:00:00	10/11/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Chloride	n/a	=	20	mg/L	EPA 300.0	1	5	WKL	D
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Fluoride	n/a	=	0.25	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/14/2010	Perchlorate	n/a	=	12	µg/L	EPA 314.0	0.82	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Calcium	Total	=	58	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Magnesium	Total	=	14	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	9/2010 1:44:00	Alkalinity as CaCO3	n/a	=	68	mg/L	SM 2320 B	1.2	10	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	BOD	n/a	=	14	mg/L	SM 5210 B	0.1	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/11/2010	COD	n/a	=	61	mg/L	EPA 410.4	1.8	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Hardness as CaCO3	Total	=	210	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/9/2010	MBAS	n/a	=	0.13	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	8/2010 3:20:00	Phenolics	n/a	=	0.076	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/19/2010	Specific Conductance	n/a	=	480	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	3/2010 5:45:00	Total Dissolved Solids	n/a	=	340	mg/L	SM 2540 C	4	10	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	0/2010 9:40:00	Total Organic Carbon	n/a	=	17	mg/L	SM 5310 C	0.32	3	WKL	D
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	52	mg/L	SM 2540 D	5	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	8/2010 4:14:00	Turbidity	n/a	=	39	NTU	EPA 180.1	0.024	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	14	mg/L	EPA 160.4	3.1	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Aluminum	Dissolved	=	22	µg/L	EPA 200.8	0.19	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/18/2010	Aluminum	Total	=	2500	µg/L	EPA 200.8	9.5	250	WKL	D
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Antimony	Dissolved	=	0.83	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Antimony	Total	=	1.6	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Arsenic	Total	=	2.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Beryllium	Total	=	0.1	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Cadmium	Dissolved	=	0.41	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Cadmium	Total	=	2	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Chromium	Dissolved	=	1.4	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Chromium	Total	=	9.8	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/9/2010	Chromium VI	n/a	=	0.56	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Copper	Dissolved	=	10	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Copper	Total	=	29	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Iron	Dissolved	=	64	µg/L	EPA 200.8	0.6	20	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Iron	Total	=	4400	µg/L	EPA 200.8	0.6	20	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Lead	Dissolved	=	0.2	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Lead	Total	=	6.8	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/18/2010	Mercury	Dissolved	DNQ	37	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/18/2010	Mercury	Total	=	51	ng/L	EPA 245.1	3.9	50	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Nickel	Dissolved	=	5.3	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Nickel	Total	=	14	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Selenium	Dissolved	=	2.2	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Selenium	Total	=	2.7	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Silver	Total	DNQ	0.16	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Thallium	Total	DNQ	0.18	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Zinc	Dissolved	=	45	µg/L	EPA 200.8	0.3	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/13/2010	Zinc	Total	=	150	µg/L	EPA 200.8	0.3	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Ammonia as N	n/a	=	0.57	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	2/2010 1:20:00	Nitrate + Nitrite as N	n/a	=	1.2	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/26/2010	Phosphorus as P	Dissolved	=	0.34	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/26/2010	Phosphorus as P	Total	=	0.53	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	TKN	n/a	=	2.4	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Butyl benzyl phthalate	n/a	DNQ	1.8	µg/L	EPA 625	1	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Diethyl phthalate	n/a	DNQ	0.94	µg/L	EPA 625	0.23	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/22/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/20/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/16/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/12/2010	DCPA (Dacthal)	n/a	DNQ	0.09	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	8/2010 4:41:00 I	Glyphosate	n/a	=	19	µg/L	EPA 547	1.8	5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Malathion	n/a	=	0.29	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/12/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Simazine	n/a	=	3.5	µg/L	EPA 525.2	0.083	0.1	WKL	EUM
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/16/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	11/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2010/11-1	Wet	7/2010 9:05:00 A	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	1/2010 3:30:00	E. Coli	n/a	=	19863	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	2/2010 9:36:00 A	Fecal Coliform	n/a	=	24000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	1/2010 3:30:00	Total Coliform	n/a	=	344800	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	Conductivity	n/a	=	12.9	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	DO	n/a	=	85.1	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	DO	n/a	=	8.47	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	pH	n/a	=	7.55	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	Salinity	n/a	<	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	Specific Conductance	n/a	=	16.2	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	0/2010 5:30:00	Temperature	n/a	=	15.3	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	11/10/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	11/3/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-FIL	2010/11-2	Wet	0/2010 5:30:00	11/3/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/4/2010	Chloride	n/a	=	9.8	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/4/2010	Fluoride	n/a	=	0.16	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/9/2010	Perchlorate	n/a	=	2.8	µg/L	EPA 314.0	0.82	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/5/2010	Calcium	Total	=	35	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/5/2010	Magnesium	Total	=	11	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Alkalinity as CaCO3	n/a	=	65	mg/L	SM 2320 B	1.2	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	BOD	n/a	=	7	mg/L	SM 5210 B	0.1	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/3/2010	COD	n/a	=	30	mg/L	EPA 410.4	1.8	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/5/2010	Hardness as CaCO3	Total	=	130	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/1/2010	MBAS	n/a	=	0.3	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Phenolics	n/a	=	0.12	mg/L	EPA 420.4	0.0016	0.01	WKL	GB
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/4/2010	Specific Conductance	n/a	=	380	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/5/2010	Total Dissolved Solids	n/a	=	260	mg/L	SM 2540 C	4	10	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Total Organic Carbon	n/a	=	9.9	mg/L	SM 5310 C	0.26	2.4	WKL	D
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/5/2010	Total Suspended Solids	n/a	=	20	mg/L	SM 2540 D	5	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/1/2010	Turbidity	n/a	=	14	NTU	EPA 180.1	0.024	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/5/2010	Volatile Suspended Solids	n/a	=	6	mg/L	EPA 160.4	3.1	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Aluminum	Dissolved	=	13	µg/L	EPA 200.8	0.19	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Aluminum	Total	=	420	µg/L	EPA 200.8	1.9	50	WKL	D
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Antimony	Dissolved	=	0.51	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Antimony	Total	=	0.61	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Arsenic	Dissolved	=	3.1	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Arsenic	Total	=	3.1	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Cadmium	Dissolved	DNQ	0.078	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Cadmium	Total	=	0.22	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Chromium	Dissolved	=	0.73	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Chromium	Total	=	1.7	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/5/2010	Chromium VI	n/a	=	0.4	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Copper	Dissolved	=	6.5	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Copper	Total	=	9.2	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Iron	Dissolved	=	24	µg/L	EPA 200.8	0.6	20	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Iron	Total	=	610	µg/L	EPA 200.8	0.6	20	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Lead	Dissolved	DNQ	0.094	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Lead	Total	=	1.6	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/11/2010	Mercury	Dissolved	DNQ	26	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/11/2010	Mercury	Total	DNQ	39	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Nickel	Dissolved	=	2	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Nickel	Total	=	2.9	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Selenium	Dissolved	=	2	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Selenium	Total	=	2.2	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Silver	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Silver	Total	DNQ	0.02	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Zinc	Dissolved	=	22	µg/L	EPA 200.8	0.3	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/10/2010	Zinc	Total	=	48	µg/L	EPA 200.8	0.3	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Ammonia as N	n/a	=	0.33	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/1/2010	Nitrate + Nitrite as N	n/a	=	0.67	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/18/2010	Phosphorus as P	Dissolved	=	0.23	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/18/2010	Phosphorus as P	Total	=	0.3	mg/L	EPA 365.1	0.0028	0.02	WKL	D,GB
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/9/2010	TKN	n/a	=	1.3	mg/L	EPA 351.2	0.074	0.1	WKL	GB
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/17/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.4	µg/L	EPA 525.2	1.1	3	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Diethyl phthalate	n/a	DNQ	0.82	µg/L	EPA 625	0.23	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/16/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM,IL
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Chlorpyrifos	n/a	=	0.014	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	GB
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/4/2010	Glyphosate	n/a	=	5.8	µg/L	EPA 547	1.8	5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Malathion	n/a	=	0.14	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	IL
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	IL
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Simazine	n/a	=	0.48	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/6/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	12/6/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2010/11-2	Wet	1/2010 8:15:00	11/24/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	7/2011 5:00:00	E. Coli	n/a	=	2613	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	0/2011 8:55:00	Fecal Coliform	n/a	=	3000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	7/2011 5:00:00	Total Coliform	n/a	=	173290	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	6/2011 5:45:00	Conductivity	n/a	=	76.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	3/1/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	6/2011 5:45:00	DO	n/a	=	94.4	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	6/2011 5:45:00	DO	n/a	=	9.63	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	6/2011 5:45:00	Salinity	n/a	<	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	6/2011 5:45:00	Specific Conductance	n/a	=	97.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	6/2011 5:45:00	Temperature	n/a	=	14.4	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	2/24/2011	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
MO-FIL	2010/11-4	Wet	6/2011 5:45:00	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Chloride	n/a	=	5.4	mg/L	EPA 300.0	0.1	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Fluoride	n/a	DNQ	0.083	mg/L	EPA 300.0	0.02	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/3/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Calcium	Total	=	19	mg/L	EPA 200.7	0.016	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Magnesium	Total	=	3.7	mg/L	EPA 200.7	0.012	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/23/2011	Alkalinity as CaCO3	n/a	=	36	mg/L	SM 2320 B	1.2	10	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/23/2011	BOD	n/a	=	6	mg/L	SM 5210 B	0.1	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/18/2011	COD	n/a	=	19	mg/L	EPA 410.4	1.8	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Hardness as CaCO3	Total	=	63	mg/L	EPA 200.7	0.089	0.66	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/18/2011	MBAS	n/a	=	0.1	mg/L	SM 5540 C	0.019	0.05	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/25/2011	Phenolics	n/a	=	0.049	mg/L	EPA 420.4	0.0016	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/23/2011	Specific Conductance	n/a	=	180	µmhos/cm	SM 2510 B	0.23	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/18/2011	Total Dissolved Solids	n/a	=	120	mg/L	SM 2540 C	4	10	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/2/2011	Total Organic Carbon	n/a	=	4.5	mg/L	SM 5310 C	0.018	0.6	WKL	D
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/18/2011	Total Suspended Solids	n/a	=	17	mg/L	SM 2540 D	5	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/18/2011	Turbidity	n/a	=	14	NTU	EPA 180.1	0.024	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/18/2011	Volatile Suspended Solids	n/a	=	5	mg/L	EPA 160.4	3.1	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Aluminum	Dissolved	=	15	µg/L	EPA 200.8	0.19	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Aluminum	Total	=	210	µg/L	EPA 200.8	0.19	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Antimony	Dissolved	DNQ	0.33	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Antimony	Total	DNQ	0.41	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Arsenic	Total	=	1.5	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Cadmium	Dissolved	=	0.12	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Cadmium	Total	=	0.2	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Chromium	Dissolved	=	0.86	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Chromium	Total	=	1.6	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/25/2011	Chromium VI	n/a	=	0.5	µg/L	EPA 218.6	0.0059	0.3	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Copper	Dissolved	=	3	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Copper	Total	=	4.1	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Iron	Dissolved	=	56	µg/L	EPA 200.8	0.6	20	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Iron	Total	=	420	µg/L	EPA 200.8	0.6	20	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Lead	Dissolved	DNQ	0.078	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Lead	Total	=	0.75	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/3/2011	Mercury	Dissolved	DNQ	12	ng/L	EPA 245.1	3.9	50	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/3/2011	Mercury	Total	DNQ	18	ng/L	EPA 245.1	3.9	50	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Nickel	Dissolved	=	1	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Nickel	Total	=	1.8	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Selenium	Dissolved	=	0.55	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Selenium	Total	=	0.63	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Silver	Total	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Zinc	Dissolved	=	19	µg/L	EPA 200.8	0.3	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Zinc	Total	=	28	µg/L	EPA 200.8	0.3	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Ammonia as N	n/a	=	0.19	mg/L	EPA 350.1	0.048	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	0.68	mg/L	EPA 353.2	0.01	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/7/2011	Phosphorus as P	Dissolved	=	0.16	mg/L	EPA 365.1	0.0014	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/7/2011	Phosphorus as P	Total	=	0.21	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/7/2011	TKN	n/a	=	0.78	mg/L	EPA 351.2	0.074	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	Diethyl phthalate	n/a	DNQ	0.73	µg/L	EPA 625	0.23	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/2/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	2/22/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	2/22/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	2/22/2011	2,4-D	n/a	=	0.92	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	2/22/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	2/22/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	2/22/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/4/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/4/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	2/22/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/4/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/4/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/4/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/22/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/22/2011	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/22/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/22/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/22/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/22/2011	Glyphosate	n/a	=	10	µg/L	EPA 547	1.8	5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Malathion	n/a	=	0.041	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/22/2011	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/1/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	2/22/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00	3/4/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/4/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/4/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/4/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/1/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-FIL	2010/11-4	Wet	7/2011 6:30:00 A	3/4/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/2/2011	Chloride	n/a	=	47	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/2/2011	Fluoride	n/a	=	0.87	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/2/2011	Perchlorate	n/a	<	1.3	µg/L	EPA 314.0	1.3	4	WKL	D
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	9/2011 8:10:00 A	E. Coli	n/a	=	1259	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	1/2011 12:02:00 I	Fecal Coliform	n/a	=	3000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	9/2011 8:10:00 A	Total Coliform	n/a	=	120330	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/5/2011	Calcium	Total	=	140	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/5/2011	Magnesium	Total	=	42	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/6/2011	Alkalinity as CaCO3	n/a	=	220	mg/L	SM 2320 B	1.2	10	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/4/2011	BOD	n/a	DNQ	1.4	mg/L	SM 5210 B	0.1	2	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/2/2011	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	8/2011 8:45:00 A	Conductivity	n/a	=	1043	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/6/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	8/2011 8:45:00 A	DO	n/a	=	47.2	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	8/2011 8:45:00 A	DO	n/a	=	4.56	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/5/2011	Hardness as CaCO3	Total	=	520	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	4/29/2011	MBAS	n/a	DNQ	0.03	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	8/2011 8:45:00 A	pH	n/a	=	7.83	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/9/2011	Phenolics	n/a	=	0.052	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	8/2011 8:45:00 A	Salinity	n/a	=	0.0000006	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	8/2011 8:45:00 A	Specific Conductance	n/a	=	1240	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/4/2011	Specific Conductance	n/a	=	1000	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	8/2011 8:45:00 A	Temperature	n/a	=	16.7	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/4/2011	Total Dissolved Solids	n/a	=	940	mg/L	SM 2540 C	4	10	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/6/2011	Total Organic Carbon	n/a	=	2.5	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/4/2011	Total Suspended Solids	n/a	=	6	mg/L	SM 2540 D	5	5	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	4/29/2011	Turbidity	n/a	=	2.8	NTU	EPA 180.1	0.024	0.1	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/4/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/2/2011	Oil and Grease	n/a	DNQ	1.4	mg/L	EPA 1664A	1.3	5	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/2/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/10/2011	Aluminum	Dissolved	DNQ	4.2	µg/L	EPA 200.8	0.19	5	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/10/2011	Aluminum	Total	=	68	µg/L	EPA 200.8	0.19	5	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/10/2011	Antimony	Dissolved	DNQ	0.39	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/10/2011	Antimony	Total	DNQ	0.42	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/10/2011	Arsenic	Dissolved	=	0.57	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/10/2011	Arsenic	Total	=	0.68	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/10/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/10/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-FIL	2010/11-5	Dry	8/2011 8:45:00 A	5/10/2011	Cadmium	Dissolved	=	0.11	µg/L	EPA 200.8	0.013	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Cadmium	Total	=	0.19	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Chromium	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Chromium	Total	=	0.33	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Chromium VI	n/a	<	0.03	µg/L	EPA 218.6	0.03	1.5	WKL	D
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Copper	Dissolved	=	1.2	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Copper	Total	=	2.1	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Iron	Dissolved	=	24	µg/L	EPA 200.8	0.6	20	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Iron	Total	=	210	µg/L	EPA 200.8	0.6	20	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Lead	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Lead	Total	=	0.29	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Nickel	Dissolved	=	1.3	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Nickel	Total	=	1.5	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Selenium	Dissolved	=	7.6	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Selenium	Total	=	7.6	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Silver	Total	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Zinc	Dissolved	=	5.1	µg/L	EPA 200.8	0.3	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Zinc	Total	=	8.2	µg/L	EPA 200.8	0.3	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/2/2011	Ammonia as N	n/a	=	0.17	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	4/29/2011	Nitrate + Nitrite as N	n/a	=	1.3	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Phosphorus as P	Dissolved	=	0.059	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Phosphorus as P	Total	=	0.086	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/5/2011	TKN	n/a	=	0.64	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	2,4,6-Trichlorophenol	n/a	DNQ	0.38	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	4/29/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	EUM
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Diethyl phthalate	n/a	DNQ	0.75	µg/L	EPA 625	0.23	2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	4/29/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/11/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/7/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	2,4-D	n/a	=	1.6	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/12/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/16/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/16/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/16/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/16/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/16/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/16/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	Dicamba	n/a	DNQ	0.32	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/16/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/16/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/4/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/16/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/10/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/6/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/16/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00	5/16/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/16/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/16/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/10/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/10/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	4/29/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/10/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/10/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/16/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/16/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/10/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/16/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/6/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/6/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/16/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/6/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/12/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/4/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/16/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/4/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/6/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/6/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/16/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/6/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/16/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/6/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/6/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/16/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/10/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/16/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2010/11-5	Dry	3/2011 8:45:00 A	5/6/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	7/2010 4:10:00 A	E. Coli	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	1/2010 10:15:00	Fecal Coliform	n/a	=	24000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	7/2010 4:10:00 A	Total Coliform	n/a	=	1553000	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	6/2010 3:35:00 A	Conductivity	n/a	=	850	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	6/2010 3:35:00 A	DO	n/a	=	50	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	6/2010 3:35:00 A	DO	n/a	=	4.91	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	6/2010 3:35:00 A	pH	n/a	=	8.02	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	6/2010 3:35:00 A	Salinity	n/a	=	0.0000005	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	6/2010 3:35:00 A	Specific Conductance	n/a	=	1029	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	6/2010 3:35:00 A	Temperature	n/a	=	15.9	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	10/12/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	X
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	10/11/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
MO-HUE	2010/11-1	Wet	6/2010 3:35:00 A	10/11/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
MO-HUE	2010/11-1	Wet	7/2010 11:40:00	10/15/2010	Chloride	n/a	=	1900	mg/L	EPA 300.0	10	50	WKL	D
MO-HUE	2010/11-1	Wet	7/2010 11:40:00	10/13/2010	Fluoride	n/a	=	0.15	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-HUE	2010/11-1	Wet	7/2010 11:40:00	10/16/2010	Perchlorate	n/a	<	4.1	µg/L	EPA 314.0	4.1	10	WKL	D

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Calcium	Total	=	91	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Magnesium	Total	=	150	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	9/2010 1:44:00	Alkalinity as CaCO3	n/a	=	97	mg/L	SM 2320 B	1.2	10	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	BOD	n/a	=	9	mg/L	SM 5210 B	0.1	2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/11/2010	COD	n/a	=	52	mg/L	EPA 410.4	1.8	5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Hardness as CaCO3	Total	=	850	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/9/2010	MBAS	n/a	=	0.12	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	8/2010 3:20:00	Phenolics	n/a	=	0.061	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/19/2010	Specific Conductance	n/a	=	6600	µmhos/cm	SM 2510 B	1.2	10	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	3/2010 5:45:00	Total Dissolved Solids	n/a	=	3400	mg/L	SM 2540 C	4	10	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	1/2010 10:58:00	Total Organic Carbon	n/a	=	7.3	mg/L	SM 5310 C	0.26	2.4	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	52	mg/L	SM 2540 D	5	5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	8/2010 4:14:00	Turbidity	n/a	=	18	NTU	EPA 180.1	0.024	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	17	mg/L	EPA 160.4	3.1	5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Aluminum	Dissolved	DNQ	4.3	µg/L	EPA 200.8	0.19	5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Aluminum	Total	=	580	µg/L	EPA 200.8	0.19	5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Antimony	Dissolved	DNQ	0.46	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Antimony	Total	=	0.71	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Arsenic	Dissolved	=	0.83	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Arsenic	Total	=	2.5	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Beryllium	Total	DNQ	0.044	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Cadmium	Dissolved	DNQ	0.036	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Cadmium	Total	=	0.22	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Chromium	Dissolved	DNQ	0.13	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Chromium	Total	=	2.3	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/9/2010	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Copper	Dissolved	=	2.3	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Copper	Total	=	12	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Iron	Dissolved	=	150	µg/L	EPA 200.8	0.6	20	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Iron	Total	=	4100	µg/L	EPA 200.8	0.6	20	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Lead	Dissolved	DNQ	0.17	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Lead	Total	=	6.2	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/18/2010	Mercury	Dissolved	DNQ	36	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/18/2010	Mercury	Total	=	50	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Nickel	Dissolved	=	2.5	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Nickel	Total	=	5.3	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Selenium	Dissolved	DNQ	0.33	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Selenium	Total	=	0.45	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Silver	Total	DNQ	0.022	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Zinc	Dissolved	=	5.8	µg/L	EPA 200.8	0.3	5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/13/2010	Zinc	Total	=	37	µg/L	EPA 200.8	0.3	5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Ammonia as N	n/a	=	0.32	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	2/2010 1:20:00	Nitrate + Nitrite as N	n/a	=	0.58	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Phosphorus as P	Dissolved	=	0.074	mg/L	EPA 365.1	0.0014	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Phosphorus as P	Total	=	0.4	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	TKN	n/a	=	1.8	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	1,2,4-Trichlorobenzene	n/a	<	1.3	µg/L	EPA 625	1.3	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	1,2-Dichlorobenzene	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	1,2-Diphenylhydrazine	n/a	<	1.8	µg/L	EPA 625	1.8	5	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	1,3-Dichlorobenzene	n/a	<	1.8	µg/L	EPA 625	1.8	5	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	1,4-Dichlorobenzene	n/a	<	1.6	µg/L	EPA 625	1.6	5	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	2,4-Dinitrotoluene	n/a	<	2	µg/L	EPA 625	2	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	2,6-Dinitrotoluene	n/a	<	1.2	µg/L	EPA 625	1.2	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	2-Chloronaphthalene	n/a	<	1.3	µg/L	EPA 625	1.3	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	3,3'-Dichlorobenzidine	n/a	<	1.5	µg/L	EPA 625	1.5	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	4-Bromophenyl phenyl ether	n/a	<	1.2	µg/L	EPA 625	1.2	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	4-Chlorophenyl phenyl ether	n/a	<	1.2	µg/L	EPA 625	1.2	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Benzidine	n/a	<	3.5	µg/L	EPA 625	3.5	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	IL
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Bis(2-chloroethoxy)methane	n/a	<	2	µg/L	EPA 625	2	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Bis(2-chloroethyl)ether	n/a	<	2.3	µg/L	EPA 625	2.3	5	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Bis(2-chloroisopropyl)ether	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	IL
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	IL
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Butyl benzyl phthalate	n/a	<	5	µg/L	EPA 625	5	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Diethyl phthalate	n/a	<	1.2	µg/L	EPA 625	1.2	10	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Dimethyl phthalate	n/a	=	17	µg/L	EPA 625	1.3	10	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Di-n-butylphthalate	n/a	<	2.6	µg/L	EPA 625	2.6	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Di-n-octylphthalate	n/a	<	1.4	µg/L	EPA 625	1.4	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Hexachlorobenzene	n/a	<	0.75	µg/L	EPA 625	0.75	5	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Hexachlorobutadiene	n/a	<	2	µg/L	EPA 625	2	5	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Hexachlorocyclopentadiene	n/a	<	25	µg/L	EPA 625	25	50	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Hexachloroethane	n/a	<	1.8	µg/L	EPA 625	1.8	5	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Isophorone	n/a	<	1.6	µg/L	EPA 625	1.6	5	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	Nitrobenzene	n/a	<	1.8	µg/L	EPA 625	1.8	5	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	N-Nitrosodimethylamine	n/a	<	1.8	µg/L	EPA 625	1.8	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	N-Nitrosodi-N-propylamine	n/a	<	2	µg/L	EPA 625	2	25	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/20/2010	N-Nitrosodiphenylamine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	D
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/23/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/21/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	4,4'-DDE	n/a	DNQ	0.0039	µg/L	EPA 608	0.0025	0.05	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	8/2010 4:41:00	Glyphosate	n/a	=	39	µg/L	EPA 547	1.8	5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/16/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2010/11-1	Wet	/2010 11:40:00	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	1/2010 3:30:00	E. Coli	n/a	=	14136	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	2/2010 9:30:00	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	1/2010 3:30:00	Total Coliform	n/a	=	410600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	0/2010 6:40:00	Conductivity	n/a	=	471	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	0/2010 6:40:00	DO	n/a	=	4.77	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	0/2010 6:40:00	DO	n/a	=	47.1	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	0/2010 6:40:00	pH	n/a	=	8.26	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	0/2010 6:40:00	Salinity	n/a	=	0.0000003	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	0/2010 6:40:00	Specific Conductance	n/a	=	588	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	0/2010 6:40:00	Temperature	n/a	=	14.7	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	11/10/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	11/6/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-HUE	2010/11-2	Wet	0/2010 6:40:00	11/6/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/4/2010	Chloride	n/a	=	1000	mg/L	EPA 300.0	5	25	WKL	D
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/4/2010	Fluoride	n/a	DNQ	0.064	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/9/2010	Perchlorate	n/a	<	1.6	µg/L	EPA 314.0	1.6	4	WKL	D
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/5/2010	Calcium	Total	=	47	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/5/2010	Magnesium	Total	=	63	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Alkalinity as CaCO3	n/a	=	64	mg/L	SM 2320 B	1.2	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	BOD	n/a	=	5.8	mg/L	SM 5210 B	0.1	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/3/2010	COD	n/a	=	48	mg/L	EPA 410.4	1.8	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/5/2010	Hardness as CaCO3	Total	=	380	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/1/2010	MBAS	n/a	=	0.13	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Phenolics	n/a	=	0.056	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/4/2010	Specific Conductance	n/a	=	3700	µmhos/cm	SM 2510 B	0.94	8	WKL	D
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/5/2010	Total Dissolved Solids	n/a	=	1800	mg/L	SM 2540 C	4	10	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Total Organic Carbon	n/a	=	6.2	mg/L	SM 5310 C	0.13	1.2	WKL	D
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/5/2010	Total Suspended Solids	n/a	=	85	mg/L	SM 2540 D	5	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/1/2010	Turbidity	n/a	=	8.8	NTU	EPA 180.1	0.024	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/5/2010	Volatile Suspended Solids	n/a	=	28	mg/L	EPA 160.4	3.1	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Aluminum	Dissolved	DNQ	3.9	µg/L	EPA 200.8	0.19	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Aluminum	Total	=	880	µg/L	EPA 200.8	1.9	50	WKL	D,GB
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Antimony	Dissolved	DNQ	0.45	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Antimony	Total	=	0.76	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Arsenic	Dissolved	=	0.87	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Arsenic	Total	=	2.9	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Beryllium	Total	DNQ	0.045	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Cadmium	Dissolved	DNQ	0.031	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Cadmium	Total	=	0.36	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Chromium	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Chromium	Total	=	2.9	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/5/2010	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Copper	Dissolved	=	2	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Copper	Total	=	12	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Iron	Dissolved	=	110	µg/L	EPA 200.8	0.6	20	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Iron	Total	=	5000	µg/L	EPA 200.8	0.6	20	WKL	GB
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Lead	Dissolved	DNQ	0.18	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Lead	Total	=	8.7	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/11/2010	Mercury	Dissolved	DNQ	23	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/11/2010	Mercury	Total	DNQ	43	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Nickel	Dissolved	=	1.6	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Nickel	Total	=	4.1	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Selenium	Dissolved	DNQ	0.32	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Selenium	Total	=	0.67	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Silver	Dissolved	DNQ	0.018	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Silver	Total	DNQ	0.033	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Thallium	Total	DNQ	0.021	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Zinc	Dissolved	=	6.4	µg/L	EPA 200.8	0.3	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/10/2010	Zinc	Total	=	61	µg/L	EPA 200.8	0.3	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Ammonia as N	n/a	=	0.32	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/1/2010	Nitrate + Nitrite as N	n/a	=	0.51	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/18/2010	Phosphorus as P	Dissolved	=	0.098	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/18/2010	Phosphorus as P	Total	=	0.54	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/9/2010	TKN	n/a	=	1.8	mg/L	EPA 351.2	0.074	0.1	WKL	GB
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/17/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Benzo(a)pyrene	n/a	DNQ	0.09	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Diethyl phthalate	n/a	DNQ	0.44	µg/L	EPA 625	0.23	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Dimethyl phthalate	n/a	=	18	µg/L	EPA 625	0.26	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/16/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/8/2010	4,4'-DDE	n/a	DNQ	0.0077	µg/L	EPA 608	0.0025	0.05	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/8/2010	4,4'-DDT	n/a	DNQ	0.004	µg/L	EPA 608	0.0031	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/8/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM,IL
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Chlorpyrifos	n/a	=	0.017	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/8/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/8/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/4/2010	Glyphosate	n/a	=	6.5	µg/L	EPA 547	1.8	5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Malathion	n/a	=	0.094	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	IL
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	IL
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/6/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	12/6/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2010/11-2	Wet	1/2010 9:10:00	11/24/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	7/2011 5:00:00	E. Coli	n/a	=	8164	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	9/2011 9:25:00	Fecal Coliform	n/a	=	2400	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	7/2011 5:00:00	Total Coliform	n/a	=	151500	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	6/2011 7:40:00	Conductivity	n/a	=	2211	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	3/3/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	H
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	6/2011 7:40:00	DO	n/a	=	7.8	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	6/2011 7:40:00	DO	n/a	=	77.2	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	6/2011 7:40:00	pH	n/a	=	7.44	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	6/2011 7:40:00	Salinity	n/a	=	0.0000015	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	6/2011 7:40:00	Specific Conductance	n/a	=	2765	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	6/2011 7:40:00	Temperature	n/a	=	14.6	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	2/24/2011	Oil and Grease	n/a	DNQ	2.6	mg/L	EPA 1664A	2	5	WKL	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
MO-HUE	2010/11-4	Wet	6/2011 7:40:00	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Chloride	n/a	=	580	mg/L	EPA 300.0	5	25	WKL	D
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Fluoride	n/a	=	0.21	mg/L	EPA 300.0	0.02	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/4/2011	Perchlorate	n/a	<	1.3	µg/L	EPA 314.0	1.3	4	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Calcium	Total	=	83	mg/L	EPA 200.7	0.016	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Magnesium	Total	=	65	mg/L	EPA 200.7	0.012	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	Alkalinity as CaCO3	n/a	=	120	mg/L	SM 2320 B	1.2	10	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	BOD	n/a	=	12	mg/L	SM 5210 B	0.1	2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/18/2011	COD	n/a	=	27	mg/L	EPA 410.4	1.8	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Hardness as CaCO3	Total	=	480	mg/L	EPA 200.7	0.089	0.66	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/18/2011	MBAS	n/a	=	0.2	mg/L	SM 5540 C	0.019	0.05	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/25/2011	Phenolics	n/a	=	0.034	mg/L	EPA 420.4	0.0016	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/24/2011	Specific Conductance	n/a	=	2700	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/18/2011	Total Dissolved Solids	n/a	=	1400	mg/L	SM 2540 C	4	10	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Total Organic Carbon	n/a	=	6.7	mg/L	SM 5310 C	0.045	1.5	WKL	D
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/18/2011	Total Suspended Solids	n/a	=	47	mg/L	SM 2540 D	5	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/18/2011	Turbidity	n/a	=	8.9	NTU	EPA 180.1	0.024	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/18/2011	Volatile Suspended Solids	n/a	=	17	mg/L	EPA 160.4	3.1	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Aluminum	Dissolved	DNQ	1.7	µg/L	EPA 200.8	0.19	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Aluminum	Total	=	230	µg/L	EPA 200.8	0.19	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Antimony	Dissolved	DNQ	0.47	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Antimony	Total	=	0.58	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Arsenic	Dissolved	DNQ	0.37	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Arsenic	Total	=	1.7	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/3/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/3/2011	Beryllium	Total	DNQ	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Cadmium	Dissolved	DNQ	0.031	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Cadmium	Total	=	0.12	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Chromium	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Chromium	Total	=	1.1	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/25/2011	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Copper	Dissolved	=	2.4	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Copper	Total	=	5.9	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Iron	Dissolved	=	31	µg/L	EPA 200.8	0.6	20	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Iron	Total	=	3200	µg/L	EPA 200.8	0.6	20	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Lead	Dissolved	DNQ	0.022	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Lead	Total	=	2.2	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/3/2011	Mercury	Dissolved	DNQ	13	ng/L	EPA 245.1	3.9	50	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/3/2011	Mercury	Total	DNQ	26	ng/L	EPA 245.1	3.9	50	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Nickel	Dissolved	=	2.3	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Nickel	Total	=	3.1	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Selenium	Dissolved	DNQ	0.39	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Selenium	Total	=	0.48	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Silver	Dissolved	DNQ	0.064	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Silver	Total	DNQ	0.03	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Zinc	Dissolved	=	5.8	µg/L	EPA 200.8	0.3	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Zinc	Total	=	26	µg/L	EPA 200.8	0.3	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/4/2011	Ammonia as N	n/a	=	0.47	mg/L	EPA 350.1	0.048	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	0.5	mg/L	EPA 353.2	0.01	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Phosphorus as P	Dissolved	=	0.021	mg/L	EPA 365.1	0.0014	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Phosphorus as P	Total	=	0.33	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/3/2011	TKN	n/a	=	1.3	mg/L	EPA 351.2	0.074	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.2	µg/L	EPA 525.2	1.1	3	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Diethyl phthalate	n/a	DNQ	0.49	µg/L	EPA 625	0.23	2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Dimethyl phthalate	n/a	=	33	µg/L	EPA 625	0.26	2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/8/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/22/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Malathion	n/a	=	0.044	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	2/23/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/2/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	IL
MO-HUE	2010/11-4	Wet	7/2011 1:32:00	3/7/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/26/2011	Chloride	n/a	=	4600	mg/L	EPA 300.0	20	100	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Fluoride	n/a	=	0.41	mg/L	EPA 300.0	0.04	0.2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Perchlorate	n/a	<	13	µg/L	EPA 314.0	13	40	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/26/2011	Calcium	Total	=	310	mg/L	EPA 200.7	0.078	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/26/2011	Magnesium	Total	=	380	mg/L	EPA 200.7	0.06	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	Alkalinity as CaCO3	n/a	=	350	mg/L	SM 2320 B	1.2	10	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/26/2011	BOD	n/a	DNQ	1.7	mg/L	SM 5210 B	0.1	2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/20/2011	COD	n/a	=	55	mg/L	EPA 410.4	1.8	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/26/2011	Hardness as CaCO3	Total	=	2300	mg/L	EPA 200.7	0.44	3.3	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/20/2011	MBAS	n/a	DNQ	0.035	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/2/2011	Phenolics	n/a	=	0.046	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/26/2011	Specific Conductance	n/a	=	14000	µmhos/cm	SM 2510 B	4.7	40	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Total Dissolved Solids	n/a	=	9900	mg/L	SM 2540 C	4	10	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	Total Organic Carbon	n/a	=	1.2	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/21/2011	Total Suspended Solids	n/a	=	9	mg/L	SM 2540 D	5	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/20/2011	Turbidity	n/a	=	10	NTU	EPA 180.1	0.024	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/21/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Aluminum	Dissolved	DNQ	1.6	µg/L	EPA 200.8	0.38	10	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Aluminum	Total	=	26	µg/L	EPA 200.8	0.38	10	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Antimony	Dissolved	DNQ	0.19	µg/L	EPA 200.8	0.016	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Antimony	Total	DNQ	0.19	µg/L	EPA 200.8	0.016	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Arsenic	Dissolved	=	0.96	µg/L	EPA 200.8	0.028	0.8	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Arsenic	Total	=	1.4	µg/L	EPA 200.8	0.028	0.8	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Beryllium	Dissolved	<	0.044	µg/L	EPA 200.8	0.044	0.2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Beryllium	Total	<	0.044	µg/L	EPA 200.8	0.044	0.2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Cadmium	Dissolved	DNQ	0.061	µg/L	EPA 200.8	0.026	0.2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Cadmium	Total	DNQ	0.059	µg/L	EPA 200.8	0.026	0.2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Chromium	Dissolved	DNQ	0.096	µg/L	EPA 200.8	0.024	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Chromium	Total	=	0.71	µg/L	EPA 200.8	0.024	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/21/2011	Chromium VI	n/a	<	0.03	µg/L	EPA 218.6	0.03	1.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Copper	Dissolved	=	1.9	µg/L	EPA 200.8	0.044	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Copper	Total	=	1.9	µg/L	EPA 200.8	0.044	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Iron	Dissolved	DNQ	35	µg/L	EPA 200.8	1.2	40	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Iron	Total	=	1700	µg/L	EPA 200.8	1.2	40	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Lead	Dissolved	DNQ	0.039	µg/L	EPA 200.8	0.034	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Lead	Total	DNQ	0.19	µg/L	EPA 200.8	0.034	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Mercury	Dissolved	DNQ	35	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Mercury	Total	DNQ	37	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Nickel	Dissolved	=	6.4	µg/L	EPA 200.8	0.022	1.6	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Nickel	Total	=	6.7	µg/L	EPA 200.8	0.022	1.6	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Selenium	Dissolved	=	0.98	µg/L	EPA 200.8	0.034	0.8	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Selenium	Total	=	1.3	µg/L	EPA 200.8	0.034	0.8	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Silver	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.016	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Silver	Total	DNQ	0.058	µg/L	EPA 200.8	0.016	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Thallium	Dissolved	<	0.04	µg/L	EPA 200.8	0.04	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Thallium	Total	<	0.04	µg/L	EPA 200.8	0.04	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Zinc	Dissolved	DNQ	2.3	µg/L	EPA 200.8	0.6	10	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Zinc	Total	DNQ	2.1	µg/L	EPA 200.8	0.6	10	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/2/2011	Ammonia as N	n/a	=	0.74	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/20/2011	Nitrate + Nitrite as N	n/a	=	0.58	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/20/2011	Nitrate as N	n/a	=	0.52	mg/L	EPA 353.2	0.041	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Phosphorus as P	Dissolved	=	0.044	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Phosphorus as P	Total	=	0.16	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/4/2011	TKN	n/a	=	1.2	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Diethyl phthalate	n/a	DNQ	0.37	µg/L	EPA 625	0.23	2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Dimethyl phthalate	n/a	=	30	µg/L	EPA 625	0.26	2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/27/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Phenol	n/a	DNQ	0.66	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/25/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/21/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/28/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/29/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	5/3/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:20:00	4/22/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	/2011 10:00:00	E. Coli	n/a	=	318	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	2/2011 1:55:00	Fecal Coliform	n/a	=	500	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	/2011 10:00:00	Total Coliform	n/a	=	22470	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	9/2011 1:25:00	Conductivity	n/a	=	12610	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	4/27/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	9/2011 1:25:00	DO	n/a	=	147.1	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	9/2011 1:25:00	DO	n/a	=	11.82	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	9/2011 1:25:00	pH	n/a	=	7.78	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	9/2011 1:25:00	Salinity	n/a	=	0.0000077	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	9/2011 1:25:00	Specific Conductance	n/a	=	13350	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	9/2011 1:25:00	Temperature	n/a	=	22.5	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	4/22/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	4/22/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	4/20/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-HUE	2010/11-5	Dry	9/2011 1:25:00	4/20/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	7/2010 5:20:00	E. Coli	n/a	=	104620	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	/2010 12:45:00	Fecal Coliform	n/a	=	110000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	7/2010 5:20:00	Total Coliform	n/a	=	2359000	MPN/100 mL	MMO-MUG	10000	10000	VCHCA	D
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	6/2010 6:30:00	Conductivity	n/a	=	141.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	6/2010 6:30:00	DO	n/a	=	88.9	%	Field Meter	-88	0.1	Field Crew	
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	6/2010 6:30:00	DO	n/a	=	8.62	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	6/2010 6:30:00	pH	n/a	=	7.7	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	6/2010 6:30:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	6/2010 6:30:00	Specific Conductance	n/a	=	169	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	6/2010 6:30:00	Temperature	n/a	=	16.3	°C	Field Meter	-88	0.1	Field Crew	
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	10/12/2010	Oil and Grease	n/a	DNQ	3	mg/L	EPA 1664A	2	5	WKL	J
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	10/12/2010	Mercury	Total	=	59	ng/L	EPA 245.1	3.9	50	WKL	IP
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	10/11/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
MO-MEI	2010/11-1	Wet	6/2010 6:30:00	10/11/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	1/2010 11:57:00	Chloride	n/a	=	7.6	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/11/2010	Fluoride	n/a	DNQ	0.098	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/14/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Calcium	Total	=	23	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Magnesium	Total	=	7.6	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	9/2010 1:44:00	Alkalinity as CaCO3	n/a	=	67	mg/L	SM 2320 B	1.2	10	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	BOD	n/a	=	60	mg/L	SM 5210 B	0.1	2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/8/2010	COD	n/a	=	450	mg/L	EPA 410.4	1.8	5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Hardness as CaCO3	Total	=	88	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/8/2010	MBAS	n/a	=	0.52	mg/L	SM 5540 C	0.095	0.25	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Phenolics	n/a	=	0.1	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Specific Conductance	n/a	=	190	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/11/2010	Total Dissolved Solids	n/a	=	160	mg/L	SM 2540 C	4	10	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	4/2010 11:37:00	Total Organic Carbon	n/a	=	45	mg/L	SM 5310 C	1.3	12	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	240	mg/L	SM 2540 D	5	5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	7/2010 6:27:00	Turbidity	n/a	=	87	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	83	mg/L	EPA 160.4	3.1	5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Aluminum	Dissolved	=	40	µg/L	EPA 200.8	0.19	5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Aluminum	Total	=	4400	µg/L	EPA 200.8	0.19	5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Antimony	Dissolved	=	0.51	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Antimony	Total	=	0.94	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Arsenic	Total	=	2.9	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Beryllium	Dissolved	DNQ	0.024	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Beryllium	Total	=	0.19	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Cadmium	Dissolved	DNQ	0.029	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Cadmium	Total	=	0.43	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Chromium	Dissolved	=	0.65	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Chromium	Total	=	10	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	7/2010 10:30:00	Chromium VI	n/a	DNQ	0.18	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Copper	Dissolved	=	6.5	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Copper	Total	=	30	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Iron	Dissolved	=	180	µg/L	EPA 200.8	0.6	20	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Iron	Total	=	6400	µg/L	EPA 200.8	0.6	20	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Lead	Dissolved	=	1.3	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Lead	Total	=	17	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	Mercury	Dissolved	DNQ	49	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	Mercury	Total	=	67	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Nickel	Dissolved	=	4.1	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Nickel	Total	=	18	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Selenium	Dissolved	DNQ	0.15	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Selenium	Total	DNQ	0.36	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Silver	Dissolved	DNQ	0.025	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Silver	Total	DNQ	0.084	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Thallium	Total	DNQ	0.061	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Zinc	Dissolved	=	27	µg/L	EPA 200.8	0.3	5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Zinc	Total	=	180	µg/L	EPA 200.8	0.3	5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/13/2010	Ammonia as N	n/a	=	1	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	7/2010 4:23:00	Nitrate + Nitrite as N	n/a	=	0.66	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	7/2010 4:23:00	Nitrate as N	n/a	=	0.35	mg/L	EPA 353.2	0.041	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/20/2010	Phosphorus as P	Dissolved	=	0.64	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/20/2010	Phosphorus as P	Total	=	1.6	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	TKN	n/a	=	6.2	mg/L	EPA 351.2	0.37	0.5	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	1,2,4-Trichlorobenzene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	1,2-Dichlorobenzene	n/a	<	3	µg/L	EPA 625	3	20	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	1,2-Diphenylhydrazine	n/a	<	3.5	µg/L	EPA 625	3.5	10	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	1,3-Dichlorobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	1,4-Dichlorobenzene	n/a	<	3.2	µg/L	EPA 625	3.2	10	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	

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Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	2,4-Dinitrotoluene	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	2,6-Dinitrotoluene	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	2-Chloronaphthalene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	3,3'-Dichlorobenzidine	n/a	<	3	µg/L	EPA 625	3	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	4-Bromophenyl phenyl ether	n/a	<	2.3	µg/L	EPA 625	2.3	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	4-Chlorophenyl phenyl ether	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Benzidine	n/a	<	7	µg/L	EPA 625	7	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Bis(2-chloroethoxy)methane	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Bis(2-chloroethyl)ether	n/a	<	4.6	µg/L	EPA 625	4.6	10	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Bis(2-chloroisopropyl)ether	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Butyl benzyl phthalate	n/a	<	10	µg/L	EPA 625	10	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Chrysene	n/a	DNQ	0.12	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Diethyl phthalate	n/a	<	2.3	µg/L	EPA 625	2.3	20	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Dimethyl phthalate	n/a	<	2.6	µg/L	EPA 625	2.6	20	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Di-n-butylphthalate	n/a	<	5.3	µg/L	EPA 625	5.3	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Di-n-octylphthalate	n/a	<	2.8	µg/L	EPA 625	2.8	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Hexachlorobenzene	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Hexachlorobutadiene	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Hexachlorocyclopentadiene	n/a	<	50	µg/L	EPA 625	50	100	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Hexachloroethane	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Isophorone	n/a	<	3.3	µg/L	EPA 625	3.3	10	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	Nitrobenzene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	N-Nitrosodimethylamine	n/a	<	3.6	µg/L	EPA 625	3.6	50	WKL	D

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	N-Nitrosodi-N-propylamine	n/a	<	4.1	µg/L	EPA 625	4.1	50	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/19/2010	N-Nitrosodiphenylamine	n/a	<	2.3	µg/L	EPA 625	2.3	10	WKL	D
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/22/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/21/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	4,4'-DDT	n/a	DNQ	0.0039	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/8/2010	Glyphosate	n/a	=	27	µg/L	EPA 547	1.8	5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	Pentachlorophenol	n/a	=	0.4	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/15/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2010/11-1	Wet	6/2010 12:48:00	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	1/2010 4:35:00	E. Coli	n/a	=	11199	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	3/2010 10:00:00	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	1/2010 4:35:00	Total Coliform	n/a	=	241920	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	0/2010 6:45:00	Conductivity	n/a	=	66.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	11/30/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	0/2010 6:45:00	DO	n/a	=	9.79	mg/L	Field Meter	-88	0.3	Field Crew	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	0/2010 6:45:00	DO	n/a	=	92.8	%	Field Meter	-88	0.1	Field Crew	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	0/2010 6:45:00	pH	n/a	=	6.54	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	0/2010 6:45:00	Salinity	n/a	<	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	0/2010 6:45:00	Specific Conductance	n/a	=	81.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	0/2010 6:45:00	Temperature	n/a	=	12.7	°C	Field Meter	-88	0.1	Field Crew	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	12/6/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	12/6/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	11/24/2010	Mercury	Total	DNQ	22	ng/L	EPA 245.1	3.9	50	WKL	IP
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	11/30/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-MEI	2010/11-3	Wet	0/2010 6:45:00	11/30/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Chloride	n/a	=	2.7	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Fluoride	n/a	<	0.02	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/29/2010	Calcium	Total	=	9.3	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/29/2010	Magnesium	Total	=	4.4	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	Alkalinity as CaCO3	n/a	=	28	mg/L	SM 2320 B	1.2	2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/27/2010	BOD	n/a	=	21	mg/L	SM 5210 B	0.1	2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/24/2010	COD	n/a	=	130	mg/L	EPA 410.4	1.8	5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/29/2010	Hardness as CaCO3	Total	=	41	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/22/2010	MBAS	n/a	=	0.11	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/6/2010	Phenolics	n/a	=	0.07	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/23/2010	Specific Conductance	n/a	=	72	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/23/2010	Total Dissolved Solids	n/a	=	54	mg/L	SM 2540 C	4	10	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/1/2010	Total Organic Carbon	n/a	=	13	mg/L	SM 5310 C	0.26	2.4	WKL	D
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/22/2010	Total Suspended Solids	n/a	=	1000	mg/L	SM 2540 D	5	5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/22/2010	Turbidity	n/a	=	94	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/22/2010	Volatile Suspended Solids	n/a	=	38	mg/L	EPA 160.4	3.1	5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Aluminum	Dissolved	=	44	µg/L	EPA 200.8	0.19	5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Aluminum	Total	=	4300	µg/L	EPA 200.8	0.19	5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Antimony	Dissolved	DNQ	0.26	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Antimony	Total	=	0.65	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Arsenic	Dissolved	=	1.3	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Arsenic	Total	=	3.2	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Beryllium	Total	=	0.2	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Cadmium	Total	=	0.37	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Chromium	Dissolved	=	0.52	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Chromium	Total	=	12	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/24/2010	Chromium VI	n/a	DNQ	0.1	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/1/2010	Copper	Dissolved	=	3.1	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Copper	Total	=	16	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Iron	Dissolved	=	67	µg/L	EPA 200.8	0.6	20	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Iron	Total	=	6600	µg/L	EPA 200.8	0.6	20	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Lead	Dissolved	=	1	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Lead	Total	=	28	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/24/2010	Mercury	Dissolved	DNQ	15	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/24/2010	Mercury	Total	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Nickel	Dissolved	=	1.6	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Nickel	Total	=	18	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Selenium	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Selenium	Total	DNQ	0.23	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Silver	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Silver	Total	DNQ	0.06	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/1/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Thallium	Total	DNQ	0.1	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Zinc	Dissolved	=	19	µg/L	EPA 200.8	0.3	5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Zinc	Total	=	220	µg/L	EPA 200.8	0.3	5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	Ammonia as N	n/a	=	0.18	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/22/2010	Nitrate + Nitrite as N	n/a	=	0.51	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/22/2010	Nitrate as N	n/a	=	0.51	mg/L	EPA 353.2	0.041	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/1/2010	Phosphorus as P	Dissolved	=	0.27	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/1/2010	Phosphorus as P	Total	=	0.71	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/9/2010	TKN	n/a	=	1.9	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Benzo(a)pyrene	n/a	DNQ	0.096	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Diethyl phthalate	n/a	DNQ	0.34	µg/L	EPA 625	0.23	2	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	1/5/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	H
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/10/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	4,4'-DDE	n/a	DNQ	0.0026	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	4,4'-DDT	n/a	DNQ	0.007	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/23/2010	Glyphosate	n/a	DNQ	4.3	µg/L	EPA 547	1.8	5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Malathion	n/a	=	0.031	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	Pentachlorophenol	n/a	=	0.25	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/2/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	11/30/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/15/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2010/11-3	Wet	1/2010 8:05:00	12/18/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	EUM
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	7/2011 5:45:00	E. Coli	n/a	=	14136	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	0/2011 9:12:00	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	7/2011 5:45:00	Total Coliform	n/a	=	241920	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	6/2011 6:50:00	Conductivity	n/a	=	173.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	3/1/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	6/2011 6:50:00	DO	n/a	=	9.43	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	6/2011 6:50:00	DO	n/a	=	88.9	%	Field Meter	-88	0.1	Field Crew	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	6/2011 6:50:00	pH	n/a	=	8.05	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	6/2011 6:50:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	6/2011 6:50:00	Specific Conductance	n/a	=	229.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	6/2011 6:50:00	Temperature	n/a	=	12.6	°C	Field Meter	-88	0.1	Field Crew	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	2/24/2011	Oil and Grease	n/a	DNQ	2.7	mg/L	EPA 1664A	2	5	WKL	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	2/25/2011	Mercury	Total	DNQ	32	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
MO-MEI	2010/11-4	Wet	6/2011 6:50:00	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Chloride	n/a	=	44	mg/L	EPA 300.0	1	5	WKL	D
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Fluoride	n/a	=	0.14	mg/L	EPA 300.0	0.02	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/4/2011	Perchlorate	n/a	DNQ	1.1	µg/L	EPA 314.0	0.64	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Calcium	Total	=	35	mg/L	EPA 200.7	0.016	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Magnesium	Total	=	16	mg/L	EPA 200.7	0.012	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	Alkalinity as CaCO3	n/a	=	120	mg/L	SM 2320 B	1.2	10	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	BOD	n/a	=	13	mg/L	SM 5210 B	0.1	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/18/2011	COD	n/a	=	65	mg/L	EPA 410.4	1.8	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Hardness as CaCO3	Total	=	150	mg/L	EPA 200.7	0.089	0.66	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/18/2011	MBAS	n/a	=	0.14	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/25/2011	Phenolics	n/a	=	0.045	mg/L	EPA 420.4	0.0016	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/24/2011	Specific Conductance	n/a	=	500	µmhos/cm	SM 2510 B	0.23	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/18/2011	Total Dissolved Solids	n/a	=	280	mg/L	SM 2540 C	4	10	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Total Organic Carbon	n/a	=	12	mg/L	SM 5310 C	0.09	3	WKL	D
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/18/2011	Total Suspended Solids	n/a	=	160	mg/L	SM 2540 D	5	5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/18/2011	Turbidity	n/a	=	19	NTU	EPA 180.1	0.024	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/18/2011	Volatile Suspended Solids	n/a	=	41	mg/L	EPA 160.4	3.1	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Aluminum	Dissolved	=	17	µg/L	EPA 200.8	0.19	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Aluminum	Total	=	1900	µg/L	EPA 200.8	3.8	100	WKL	D
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Antimony	Dissolved	DNQ	0.22	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Antimony	Total	DNQ	0.34	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Arsenic	Total	=	2	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/3/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/3/2011	Beryllium	Total	DNQ	0.082	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Cadmium	Dissolved	DNQ	0.025	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Cadmium	Total	=	0.12	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Chromium	Dissolved	=	0.41	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Chromium	Total	=	5.1	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/25/2011	Chromium VI	n/a	DNQ	0.17	µg/L	EPA 218.6	0.0059	0.3	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Copper	Dissolved	=	3.5	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Copper	Total	=	8.5	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Iron	Dissolved	=	36	µg/L	EPA 200.8	0.6	20	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Iron	Total	=	2300	µg/L	EPA 200.8	0.6	20	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Lead	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Lead	Total	=	4.5	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/3/2011	Mercury	Dissolved	DNQ	21	ng/L	EPA 245.1	3.9	50	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/3/2011	Mercury	Total	DNQ	33	ng/L	EPA 245.1	3.9	50	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Nickel	Dissolved	=	2.3	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Nickel	Total	=	9.5	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Selenium	Dissolved	DNQ	0.18	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Selenium	Total	DNQ	0.27	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Silver	Total	DNQ	0.02	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Thallium	Total	DNQ	0.021	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Zinc	Dissolved	=	8.8	µg/L	EPA 200.8	0.3	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Zinc	Total	=	46	µg/L	EPA 200.8	0.3	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/4/2011	Ammonia as N	n/a	=	0.4	mg/L	EPA 350.1	0.048	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	1.4	mg/L	EPA 353.2	0.01	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/18/2011	Nitrate as N	n/a	=	1.3	mg/L	EPA 353.2	0.041	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Phosphorus as P	Dissolved	=	0.35	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Phosphorus as P	Total	=	0.7	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/3/2011	TKN	n/a	=	2.7	mg/L	EPA 351.2	0.074	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.1	µg/L	EPA 525.2	1.1	3	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Diethyl phthalate	n/a	DNQ	0.44	µg/L	EPA 625	0.23	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	4,4'-DDT	n/a	DNQ	0.0037	µg/L	EPA 608	0.0031	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/22/2011	Glyphosate	n/a	=	69	µg/L	EPA 547	9	25	WKL	D
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	Pentachlorophenol	n/a	DNQ	0.13	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	2/23/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/2/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	IL
MO-MEI	2010/11-4	Wet	/2011 11:48:00	3/7/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Chloride	n/a	=	100	mg/L	EPA 300.0	1	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Fluoride	n/a	=	0.34	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Perchlorate	n/a	<	1.3	µg/L	EPA 314.0	1.3	4	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Calcium	Total	=	80	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Magnesium	Total	=	110	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	Alkalinity as CaCO3	n/a	=	450	mg/L	SM 2320 B	1.2	10	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	BOD	n/a	DNQ	1.7	mg/L	SM 5210 B	0.1	2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/20/2011	COD	n/a	=	11	mg/L	EPA 410.4	1.8	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Hardness as CaCO3	Total	=	640	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/20/2011	MBAS	n/a	DNQ	0.047	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/2/2011	Phenolics	n/a	=	0.064	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Specific Conductance	n/a	=	1200	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Total Dissolved Solids	n/a	=	980	mg/L	SM 2540 C	4	10	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	Total Organic Carbon	n/a	=	6.9	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/21/2011	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/20/2011	Turbidity	n/a	=	0.74	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/21/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Aluminum	Dissolved	DNQ	2.3	µg/L	EPA 200.8	0.19	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Aluminum	Total	=	15	µg/L	EPA 200.8	0.19	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Antimony	Dissolved	DNQ	0.14	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Antimony	Total	DNQ	0.14	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Arsenic	Dissolved	=	1.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Arsenic	Total	=	1.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Cadmium	Dissolved	<	0.013	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Cadmium	Total	<	0.013	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Chromium	Dissolved	=	0.48	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Chromium	Total	=	0.43	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/21/2011	Chromium VI	n/a	<	0.03	µg/L	EPA 218.6	0.03	1.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Copper	Dissolved	=	2.3	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Copper	Total	=	2.1	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Iron	Dissolved	DNQ	9	µg/L	EPA 200.8	0.6	20	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Iron	Total	=	32	µg/L	EPA 200.8	0.6	20	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Lead	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Lead	Total	DNQ	0.06	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Mercury	Dissolved	DNQ	34	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Mercury	Total	DNQ	33	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Nickel	Dissolved	=	6.7	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Nickel	Total	=	7.1	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Selenium	Dissolved	=	0.46	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Selenium	Total	=	0.45	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Silver	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Silver	Total	DNQ	0.022	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Zinc	Dissolved	DNQ	2.3	µg/L	EPA 200.8	0.3	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/27/2011	Zinc	Total	DNQ	2	µg/L	EPA 200.8	0.3	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/2/2011	Ammonia as N	n/a	DNQ	0.095	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/20/2011	Nitrate + Nitrite as N	n/a	=	2.6	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/20/2011	Nitrate as N	n/a	=	2.4	mg/L	EPA 353.2	0.041	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Phosphorus as P	Dissolved	=	0.021	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Phosphorus as P	Total	=	0.03	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/4/2011	TKN	n/a	=	0.76	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	2,4,6-Trichlorophenol	n/a	DNQ	0.38	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Diethyl phthalate	n/a	DNQ	1	µg/L	EPA 625	0.23	2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Di-n-butylphthalate	n/a	DNQ	1.3	µg/L	EPA 625	0.53	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Di-n-octylphthalate	n/a	DNQ	2.4	µg/L	EPA 625	0.28	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/26/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/25/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/21/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/28/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/29/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	5/3/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:40:00	4/22/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	/2011 10:00:00	E. Coli	n/a	=	1376	MPN/100 mL	MMO-MUG	10	10	VCHCA	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2010/11-5	Dry	/2011 11:55:00	3/2011 1:25:00	Fecal Coliform	n/a	=	3000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	/2011 10:00:00	Total Coliform	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	/2011 11:55:00	Conductivity	n/a	=	1137	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	4/27/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	/2011 11:55:00	DO	n/a	=	102	%	Field Meter	-88	0.1	Field Crew	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	/2011 11:55:00	DO	n/a	=	10.01	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	/2011 11:55:00	pH	n/a	=	8.66	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	/2011 11:55:00	Salinity	n/a	=	0.0000007	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	/2011 11:55:00	Specific Conductance	n/a	=	1352	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	/2011 11:55:00	Temperature	n/a	=	16.6	°C	Field Meter	-88	0.1	Field Crew	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	4/22/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	4/22/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	4/25/2011	Mercury	Total	DNQ	32	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	4/20/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-MEI	2010/11-5	Dry	/2011 11:55:00	4/20/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	7/2010 5:20:00	E. Coli	n/a	=	10462	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	/2010 11:01:00	Fecal Coliform	n/a	=	30000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	/2010 11:01:00	Total Coliform	n/a	=	2014000	MPN/100 mL	MMO-MUG	10000	10000	VCHCA	D
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00	Conductivity	n/a	=	98.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00	DO	n/a	=	88.1	%	Field Meter	-88	0.1	Field Crew	
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00	DO	n/a	=	8.7	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00	pH	n/a	=	7.19	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00	Specific Conductance	n/a	=	121.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	6/2010 4:30:00	Temperature	n/a	=	16.2	°C	Field Meter	-88	0.1	Field Crew	
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	10/12/2010	Oil and Grease	n/a	DNQ	2.1	mg/L	EPA 1664A	2	5	WKL	J
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	10/11/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
MO-MPK	2010/11-1	Wet	6/2010 4:30:00	10/11/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/13/2010	Chloride	n/a	=	26	mg/L	EPA 300.0	1	5	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/13/2010	Fluoride	n/a	=	0.22	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/16/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/13/2010	Calcium	Total	=	29	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/13/2010	Magnesium	Total	=	6.8	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	9/2010 4:31:00	Alkalinity as CaCO3	n/a	=	51	mg/L	SM 2320 B	1.2	2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/13/2010	BOD	n/a	=	20	mg/L	SM 5210 B	0.1	2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/11/2010	COD	n/a	=	250	mg/L	EPA 410.4	1.8	5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/13/2010	Hardness as CaCO3	Total	=	100	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/9/2010	MBAS	n/a	DNQ	0.021	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	8/2010 3:20:00	Phenolics	n/a	=	0.065	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/19/2010	Specific Conductance	n/a	=	300	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	3/2010 5:45:00	Total Dissolved Solids	n/a	=	190	mg/L	SM 2540 C	4	10	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	0/2010 9:40:00	Total Organic Carbon	n/a	=	24	mg/L	SM 5310 C	0.64	6	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	140	mg/L	SM 2540 D	5	5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	8/2010 4:14:00	Turbidity	n/a	=	65	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	24	mg/L	EPA 160.4	3.1	5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/13/2010	Aluminum	Dissolved	=	45	µg/L	EPA 200.8	0.19	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/18/2010	Aluminum	Total	=	3700	µg/L	EPA 200.8	9.5	250	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Antimony	Dissolved	=	0.62	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Antimony	Total	=	0.76	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Arsenic	Dissolved	=	3.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Arsenic	Total	=	4.8	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Beryllium	Total	=	0.16	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Cadmium	Dissolved	DNQ	0.068	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Cadmium	Total	=	0.5	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Chromium	Dissolved	=	0.63	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Chromium	Total	=	7.5	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/9/2010	Chromium VI	n/a	DNQ	0.25	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Copper	Dissolved	=	10	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Copper	Total	=	25	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Iron	Dissolved	=	68	µg/L	EPA 200.8	0.6	20	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Iron	Total	=	4900	µg/L	EPA 200.8	0.6	20	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Lead	Dissolved	DNQ	0.17	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Lead	Total	=	7.2	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/18/2010	Mercury	Dissolved	DNQ	39	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/18/2010	Mercury	Total	=	51	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Nickel	Dissolved	=	5.6	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Nickel	Total	=	12	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Selenium	Dissolved	=	0.97	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Selenium	Total	=	1.1	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Silver	Total	DNQ	0.055	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Thallium	Total	DNQ	0.054	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Zinc	Dissolved	=	13	µg/L	EPA 200.8	0.3	5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/13/2010	Zinc	Total	=	100	µg/L	EPA 200.8	0.3	5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Ammonia as N	n/a	=	1.4	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	2/2010 1:20:00	Nitrate + Nitrite as N	n/a	=	2.1	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Phosphorus as P	Dissolved	=	0.47	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Phosphorus as P	Total	=	2.4	mg/L	EPA 365.1	0.028	0.2	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	TKN	n/a	=	7.6	mg/L	EPA 351.2	0.37	0.5	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	1,2,4-Trichlorobenzene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	1,2-Dichlorobenzene	n/a	<	3	µg/L	EPA 625	3	20	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	1,2-Diphenylhydrazine	n/a	<	3.5	µg/L	EPA 625	3.5	10	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	1,3-Dichlorobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	1,4-Dichlorobenzene	n/a	<	3.2	µg/L	EPA 625	3.2	10	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	2,4-Dinitrotoluene	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	2,6-Dinitrotoluene	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	2-Chloronaphthalene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	3,3'-Dichlorobenzidine	n/a	<	3	µg/L	EPA 625	3	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	4-Bromophenyl phenyl ether	n/a	<	2.3	µg/L	EPA 625	2.3	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	4-Chlorophenyl phenyl ether	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Benzidine	n/a	<	7	µg/L	EPA 625	7	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Bis(2-chloroethoxy)methane	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Bis(2-chloroethyl)ether	n/a	<	4.6	µg/L	EPA 625	4.6	10	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Bis(2-chloroisopropyl)ether	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Butyl benzyl phthalate	n/a	<	10	µg/L	EPA 625	10	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Diethyl phthalate	n/a	<	2.3	µg/L	EPA 625	2.3	20	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Dimethyl phthalate	n/a	<	2.6	µg/L	EPA 625	2.6	20	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Di-n-butylphthalate	n/a	<	5.3	µg/L	EPA 625	5.3	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Di-n-octylphthalate	n/a	<	2.8	µg/L	EPA 625	2.8	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Hexachlorobenzene	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Hexachlorobutadiene	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Hexachlorocyclopentadiene	n/a	<	50	µg/L	EPA 625	50	100	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Hexachloroethane	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Isophorone	n/a	<	3.3	µg/L	EPA 625	3.3	10	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Nitrobenzene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	N-Nitrosodimethylamine	n/a	<	3.6	µg/L	EPA 625	3.6	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	N-Nitrosodi-N-propylamine	n/a	<	4.1	µg/L	EPA 625	4.1	50	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	N-Nitrosodiphenylamine	n/a	<	2.3	µg/L	EPA 625	2.3	10	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/23/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/20/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	4,4'-DDE	n/a	DNQ	0.02	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/19/2010	4,4'-DDT	n/a	=	0.012	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	11/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	11/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Bromacil	n/a	=	79	µg/L	EPA 525.2	0.9	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	11/2/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	11/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	Dalapon	n/a	DNQ	0.22	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	DCPA (Dacthal)	n/a	=	0.97	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	11/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	11/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	11/2/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	11/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	11/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	11/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00 A	10/16/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/16/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/16/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/16/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/16/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/16/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	8/2010 4:41:00	Glyphosate	n/a	=	49	µg/L	EPA 547	3.6	10	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/16/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/16/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Malathion	n/a	=	0.19	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/16/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/12/2010	Pentachlorophenol	n/a	=	13	µg/L	EPA 515.3	0.1	1	WKL	D
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/26/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/16/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	11/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2010/11-1	Wet	7/2010 9:35:00	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	1/2010 3:30:00	E. Coli	n/a	=	2282	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	2/2010 9:45:00	Fecal Coliform	n/a	=	5000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	1/2010 3:30:00	Total Coliform	n/a	=	86640	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	0/2010 7:17:00	Conductivity	n/a	=	11	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	0/2010 7:17:00	DO	n/a	=	93.4	%	Field Meter	-88	0.1	Field Crew	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	0/2010 7:17:00	DO	n/a	=	9.7	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	0/2010 7:17:00	pH	n/a	=	8.08	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	0/2010 7:17:00	Salinity	n/a	<	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	0/2010 7:17:00	Specific Conductance	n/a	=	13.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	0/2010 7:17:00	Temperature	n/a	=	13.3	°C	Field Meter	-88	0.1	Field Crew	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	11/10/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	

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MO-MPK	2010/11-2	Wet	0/2010 7:17:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	11/4/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 7:17:00	11/4/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	Chloride	n/a	=	9.8	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	Fluoride	n/a	DNQ	0.095	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/9/2010	Perchlorate	n/a	DNQ	1	µg/L	EPA 314.0	0.82	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/5/2010	Calcium	Total	=	32	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/5/2010	Magnesium	Total	=	5.1	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/11/2010	Alkalinity as CaCO3	n/a	=	34	mg/L	SM 2320 B	1.2	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/4/2010	BOD	n/a	=	22	mg/L	SM 5210 B	0.1	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/3/2010	COD	n/a	=	120	mg/L	EPA 410.4	1.8	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/5/2010	Hardness as CaCO3	Total	=	100	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	0/2010 11:45:00	MBAS	n/a	=	0.3	mg/L	SM 5540 C	0.095	0.25	WKL	D
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Phenolics	n/a	=	0.031	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/4/2010	Specific Conductance	n/a	=	250	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/5/2010	Total Dissolved Solids	n/a	=	190	mg/L	SM 2540 C	4	10	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Total Organic Carbon	n/a	=	18	mg/L	SM 5310 C	0.32	3	WKL	D
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/5/2010	Total Suspended Solids	n/a	=	270	mg/L	SM 2540 D	5	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	0/2010 8:26:00	Turbidity	n/a	=	130	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/5/2010	Volatile Suspended Solids	n/a	=	53	mg/L	EPA 160.4	3.1	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Aluminum	Dissolved	=	32	µg/L	EPA 200.8	0.19	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Aluminum	Total	=	4300	µg/L	EPA 200.8	19	500	WKL	D,GB
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Antimony	Dissolved	=	0.61	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Antimony	Total	=	0.94	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Arsenic	Dissolved	=	2.9	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Arsenic	Total	=	4.3	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Beryllium	Total	=	0.19	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Cadmium	Dissolved	DNQ	0.082	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Cadmium	Total	=	0.62	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Chromium	Dissolved	=	1	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Chromium	Total	=	10	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/5/2010	Chromium VI	n/a	=	0.69	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Copper	Dissolved	=	7.9	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Copper	Total	=	26	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Iron	Dissolved	=	40	µg/L	EPA 200.8	0.6	20	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Iron	Total	=	6200	µg/L	EPA 200.8	0.6	20	WKL	GB
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Lead	Dissolved	DNQ	0.19	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Lead	Total	=	10	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/11/2010	Mercury	Dissolved	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/11/2010	Mercury	Total	=	58	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Nickel	Dissolved	=	2.8	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Nickel	Total	=	11	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Selenium	Dissolved	=	2.6	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Selenium	Total	=	2.8	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Silver	Total	DNQ	0.075	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	

Appendix G
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Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Thallium	Total	DNQ	0.078	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Zinc	Dissolved	=	21	µg/L	EPA 200.8	0.3	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/10/2010	Zinc	Total	=	140	µg/L	EPA 200.8	0.3	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Ammonia as N	n/a	=	0.66	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	0/2010 9:02:00	Nitrate + Nitrite as N	n/a	=	6.2	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/18/2010	Phosphorus as P	Dissolved	=	0.45	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Phosphorus as P	Total	=	1.1	mg/L	EPA 365.1	0.035	0.25	WKL	D
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	TKN	n/a	=	3.1	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/17/2010	2-Methylphenol	n/a	DNQ	0.38	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/17/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Diethyl phthalate	n/a	DNQ	0.54	µg/L	EPA 625	0.23	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Di-n-butylphthalate	n/a	DNQ	0.67	µg/L	EPA 625	0.53	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Fluoranthene	n/a	DNQ	0.21	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Phenanthrene	n/a	DNQ	0.16	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/16/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/15/2010	4,4'-DDE	n/a	DNQ	0.026	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/15/2010	4,4'-DDT	n/a	=	0.016	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Bromacil	n/a	=	42	µg/L	EPA 525.2	0.9	1	WKL	CJ
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Chlorpyrifos	n/a	=	0.037	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	DCPA (Dacthal)	n/a	=	1	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/4/2010	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Malathion	n/a	=	0.32	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	Pentachlorophenol	n/a	=	4.6	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/6/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/14/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	12/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2010/11-2	Wet	0/2010 10:15:00	11/29/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00	7/2011 5:00:00 A	E. Coli	n/a	=	1529	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-MPK	2010/11-4	Wet	6/2011 7:15:00	0/2011 9:00:00 A	Fecal Coliform	n/a	=	3000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00	7/2011 5:00:00 A	Total Coliform	n/a	=	1046200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-MPK	2010/11-4	Wet	6/2011 7:15:00	6/2011 7:15:00 A	Conductivity	n/a	=	91.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00 A	3/1/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00	6/2011 7:15:00 A	DO	n/a	=	106.7	%	Field Meter	-88	0.1	Field Crew	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00	6/2011 7:15:00 A	DO	n/a	=	11.03	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00	6/2011 7:15:00 A	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00	6/2011 7:15:00 A	Specific Conductance	n/a	=	118.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00	6/2011 7:15:00 A	Temperature	n/a	=	13.3	°C	Field Meter	-88	0.1	Field Crew	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00 A	2/24/2011	Oil and Grease	n/a	DNQ	2.3	mg/L	EPA 1664A	2	5	WKL	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00 A	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00 A	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
MO-MPK	2010/11-4	Wet	6/2011 7:15:00 A	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Chloride	n/a	=	8.5	mg/L	EPA 300.0	0.1	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Fluoride	n/a	=	0.11	mg/L	EPA 300.0	0.02	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/3/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Calcium	Total	=	23	mg/L	EPA 200.7	0.016	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Magnesium	Total	=	4.9	mg/L	EPA 200.7	0.012	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/23/2011	Alkalinity as CaCO3	n/a	=	50	mg/L	SM 2320 B	1.2	10	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/23/2011	BOD	n/a	=	15	mg/L	SM 5210 B	0.1	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/18/2011	COD	n/a	=	95	mg/L	EPA 410.4	1.8	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Hardness as CaCO3	Total	=	78	mg/L	EPA 200.7	0.089	0.66	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/18/2011	MBAS	n/a	=	0.32	mg/L	SM 5540 C	0.095	0.25	WKL	D
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/25/2011	Phenolics	n/a	=	0.094	mg/L	EPA 420.4	0.0016	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/23/2011	Specific Conductance	n/a	=	200	µmhos/cm	SM 2510 B	0.23	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/18/2011	Total Dissolved Solids	n/a	=	150	mg/L	SM 2540 C	4	10	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/2/2011	Total Organic Carbon	n/a	=	10	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/18/2011	Total Suspended Solids	n/a	=	280	mg/L	SM 2540 D	5	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/18/2011	Turbidity	n/a	=	66	NTU	EPA 180.1	0.024	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/18/2011	Volatile Suspended Solids	n/a	=	63	mg/L	EPA 160.4	3.1	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Aluminum	Dissolved	=	55	µg/L	EPA 200.8	0.19	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Aluminum	Total	=	4300	µg/L	EPA 200.8	0.19	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Antimony	Dissolved	=	0.55	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Antimony	Total	=	0.76	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Arsenic	Dissolved	=	2.1	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Arsenic	Total	=	3.9	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Beryllium	Total	=	0.23	µg/L	EPA 200.8	0.022	0.1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Cadmium	Dissolved	DNQ	0.051	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Cadmium	Total	=	0.59	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Chromium	Dissolved	=	0.92	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Chromium	Total	=	10	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	2/25/2011	Chromium VI	n/a	=	0.82	µg/L	EPA 218.6	0.0059	0.3	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Copper	Dissolved	=	4.4	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Copper	Total	=	19	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Iron	Dissolved	=	98	µg/L	EPA 200.8	0.6	20	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Iron	Total	=	6200	µg/L	EPA 200.8	0.6	20	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Lead	Dissolved	DNQ	0.1	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Lead	Total	=	9.5	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/3/2011	Mercury	Dissolved	DNQ	15	ng/L	EPA 245.1	3.9	50	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/3/2011	Mercury	Total	DNQ	36	ng/L	EPA 245.1	3.9	50	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Nickel	Dissolved	=	2.1	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Nickel	Total	=	10	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Selenium	Dissolved	=	0.92	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Selenium	Total	=	1.6	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Silver	Total	DNQ	0.051	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Thallium	Total	DNQ	0.083	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Zinc	Dissolved	=	9.6	µg/L	EPA 200.8	0.3	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Zinc	Total	=	96	µg/L	EPA 200.8	0.3	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/4/2011	Ammonia as N	n/a	=	0.37	mg/L	EPA 350.1	0.048	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	3.3	mg/L	EPA 353.2	0.01	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/7/2011	Phosphorus as P	Dissolved	=	0.25	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/7/2011	Phosphorus as P	Total	=	1	mg/L	EPA 365.1	0.07	0.5	WKL	D
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/7/2011	TKN	n/a	=	3.2	mg/L	EPA 351.2	0.074	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/7/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/7/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/7/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2	µg/L	EPA 525.2	1.1	3	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Diethyl phthalate	n/a	DNQ	0.58	µg/L	EPA 625	0.23	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00	2/22/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	4,4'-DDE	n/a	DNQ	0.019	µg/L	EPA 608	0.0025	0.05	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	4,4'-DDT	n/a	=	0.01	µg/L	EPA 608	0.0031	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Bromacil	n/a	=	13	µg/L	EPA 525.2	0.9	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	DCPA (Dacthal)	n/a	=	0.17	µg/L	EPA 515.3	0.02	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	Glyphosate	n/a	=	6.7	µg/L	EPA 547	1.8	5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	Pentachlorophenol	n/a	=	2.3	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	2/22/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Stirophos (Tetrachlorvinphos)	n/a	DNQ	0.0084	µg/L	EPA 525.2	0.0031	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/1/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-MPK	2010/11-4	Wet	7/2011 7:03:00 A	3/7/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	9/2011 8:10:00 A	E. Coli	n/a	=	15531	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	1/2011 12:49:00	Fecal Coliform	n/a	=	30000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	9/2011 8:10:00 A	Total Coliform	n/a	=	241920	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	8/2011 8:10:00 A	Conductivity	n/a	=	302.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	5/6/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	8/2011 8:10:00 A	DO	n/a	=	9.09	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	8/2011 8:10:00 A	DO	n/a	=	88.7	%	Field Meter	-88	0.1	Field Crew	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	8/2011 8:10:00 A	pH	n/a	=	8.47	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	8/2011 8:10:00 A	Salinity	n/a	=	0.0000002	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	8/2011 8:10:00 A	Specific Conductance	n/a	=	382	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	8/2011 8:10:00 A	Temperature	n/a	=	14.4	°C	Field Meter	-88	0.1	Field Crew	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	5/2/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	5/2/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	4/29/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-MPK	2010/11-5	Dry	8/2011 8:10:00	4/29/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00	5/3/2011	Chloride	n/a	=	390	mg/L	EPA 300.0	1	5	WKL	D
MO-MPK	2010/11-5	Dry	9/2011 8:40:00	5/3/2011	Fluoride	n/a	=	1.3	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00	5/4/2011	Perchlorate	n/a	<	6.4	µg/L	EPA 314.0	6.4	20	WKL	D
MO-MPK	2010/11-5	Dry	9/2011 8:40:00	5/5/2011	Calcium	Total	=	130	mg/L	EPA 200.7	0.016	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/5/2011	Magnesium	Total	=	57	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Alkalinity as CaCO3	n/a	=	290	mg/L	SM 2320 B	1.2	10	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	BOD	n/a	=	6.1	mg/L	SM 5210 B	0.1	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/3/2011	COD	n/a	=	120	mg/L	EPA 410.4	1.8	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/5/2011	Hardness as CaCO3	Total	=	560	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	9/2011 5:05:00 I	MBAS	n/a	=	2.4	mg/L	SM 5540 C	0.38	1	WKL	D
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/9/2011	Phenolics	n/a	=	0.055	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Specific Conductance	n/a	=	2600	µmhos/cm	SM 2510 B	1.2	10	WKL	D
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Total Dissolved Solids	n/a	=	1800	mg/L	SM 2540 C	4	10	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Total Organic Carbon	n/a	=	45	mg/L	SM 5310 C	0.18	6	WKL	D
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Total Suspended Solids	n/a	=	10	mg/L	SM 2540 D	5	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	9/2011 5:05:00 I	Turbidity	n/a	=	2.3	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Volatile Suspended Solids	n/a	=	7	mg/L	EPA 160.4	3.1	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Aluminum	Dissolved	DNQ	2.8	µg/L	EPA 200.8	0.19	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Aluminum	Total	=	19	µg/L	EPA 200.8	0.19	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Antimony	Dissolved	=	1.3	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Antimony	Total	=	1.3	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Arsenic	Dissolved	=	5.5	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Arsenic	Total	=	5.4	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Cadmium	Dissolved	=	0.78	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Cadmium	Total	=	0.82	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Chromium	Dissolved	=	0.73	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Chromium	Total	=	0.81	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Chromium VI	n/a	DNQ	0.38	µg/L	EPA 218.6	0.03	1.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Copper	Dissolved	=	13	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Copper	Total	=	13	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Iron	Dissolved	DNQ	7.8	µg/L	EPA 200.8	0.6	20	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Iron	Total	DNQ	17	µg/L	EPA 200.8	0.6	20	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Lead	Dissolved	DNQ	0.14	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Lead	Total	DNQ	0.19	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Mercury	Dissolved	DNQ	31	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Mercury	Total	DNQ	49	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Nickel	Dissolved	=	8	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Nickel	Total	=	8	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Selenium	Dissolved	=	0.66	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Selenium	Total	=	0.71	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Silver	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Silver	Total	DNQ	0.02	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Zinc	Dissolved	=	6.9	µg/L	EPA 200.8	0.3	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Zinc	Total	=	6.6	µg/L	EPA 200.8	0.3	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/9/2011	Ammonia as N	n/a	=	0.21	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	9/2011 5:05:00 I	Nitrate + Nitrite as N	n/a	=	0.21	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Phosphorus as P	Dissolved	=	0.14	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Phosphorus as P	Total	=	0.24	mg/L	EPA 365.1	0.0028	0.02	WKL	D

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/5/2011	TKN	n/a	=	2.7	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	2,4,6-Trichlorophenol	n/a	DNQ	0.4	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	EUM
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Bis(2-ethylhexyl)phthalate	n/a	=	9.4	µg/L	EPA 525.2	1.1	3	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Diethyl phthalate	n/a	DNQ	0.92	µg/L	EPA 625	0.23	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/11/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Phenol	n/a	DNQ	0.4	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	DCPA (Dacthal)	n/a	=	0.25	µg/L	EPA 515.3	0.07	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/7/2011	Glyphosate	n/a	=	16	µg/L	EPA 547	1.8	5	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/4/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/10/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/17/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2010/11-5	Dry	9/2011 8:40:00 A	5/6/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	7/2010 5:20:00 A	E. Coli	n/a	=	14136	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	0/2010 10:19:00	Fecal Coliform	n/a	=	50000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	7/2010 5:20:00 A	Total Coliform	n/a	=	980400	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	6/2010 7:40:00 A	Conductivity	n/a	=	91.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	6/2010 7:40:00 A	DO	n/a	=	9.17	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	6/2010 7:40:00 A	DO	n/a	=	92.3	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	6/2010 7:40:00 A	pH	n/a	=	7.69	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	6/2010 7:40:00 A	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	6/2010 7:40:00 A	Specific Conductance	n/a	=	121.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	6/2010 7:40:00 A	Temperature	n/a	=	15.6	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	10/12/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	X
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	10/12/2010	Mercury	Total	DNQ	45	ng/L	EPA 245.1	3.9	50	WKL	IP,J
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	10/8/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
MO-OJA	2010/11-1	Wet	6/2010 7:40:00 A	10/8/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	1/2010 11:57:00	Chloride	n/a	=	8.6	mg/L	EPA 300.0	0.2	1	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/11/2010	Fluoride	n/a	DNQ	0.088	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/14/2010	Perchlorate	n/a	DNQ	1.6	µg/L	EPA 314.0	0.82	2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Calcium	Total	=	51	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Magnesium	Total	=	7.9	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	9/2010 1:44:00	Alkalinity as CaCO3	n/a	=	94	mg/L	SM 2320 B	1.2	10	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	BOD	n/a	=	200	mg/L	SM 5210 B	0.1	2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/8/2010	COD	n/a	=	760	mg/L	EPA 410.4	1.8	5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Hardness as CaCO3	Total	=	160	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/8/2010	MBAS	n/a	=	0.3	mg/L	SM 5540 C	0.095	0.25	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Phenolics	n/a	=	0.054	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Specific Conductance	n/a	=	190	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/11/2010	Total Dissolved Solids	n/a	=	110	mg/L	SM 2540 C	4	10	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	4/2010 11:37:00	Total Organic Carbon	n/a	=	140	mg/L	SM 5310 C	3.2	30	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	560	mg/L	SM 2540 D	5	5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	7/2010 6:27:00	Turbidity	n/a	=	58	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	95	mg/L	EPA 160.4	3.1	5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Aluminum	Dissolved	=	21	µg/L	EPA 200.8	0.19	5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Aluminum	Total	=	7300	µg/L	EPA 200.8	0.19	5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Antimony	Dissolved	DNQ	0.31	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Antimony	Total	=	0.7	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Arsenic	Dissolved	=	0.99	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Arsenic	Total	=	3.2	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Beryllium	Total	=	0.38	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Cadmium	Dissolved	<	0.013	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Cadmium	Total	=	0.64	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Chromium	Dissolved	=	0.29	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Chromium	Total	=	14	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	/2010 10:30:00	Chromium VI	n/a	DNQ	0.026	µg/L	EPA 218.6	0.0059	0.3	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Copper	Dissolved	=	3.6	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Copper	Total	=	38	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Iron	Dissolved	=	160	µg/L	EPA 200.8	0.6	20	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Iron	Total	=	11000	µg/L	EPA 200.8	0.6	20	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Lead	Dissolved	=	0.53	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Lead	Total	=	18	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	Mercury	Dissolved	DNQ	30	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	Mercury	Total	=	71	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Nickel	Dissolved	=	2	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Nickel	Total	=	21	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Selenium	Dissolved	DNQ	0.17	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Selenium	Total	=	0.47	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Silver	Total	=	0.34	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Thallium	Total	DNQ	0.11	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Zinc	Dissolved	=	13	µg/L	EPA 200.8	0.3	5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Zinc	Total	=	240	µg/L	EPA 200.8	0.3	5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/13/2010	Ammonia as N	n/a	=	0.51	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	7/2010 4:23:00	Nitrate + Nitrite as N	n/a	=	0.36	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	7/2010 4:23:00	Nitrate as N	n/a	DNQ	0.081	mg/L	EPA 353.2	0.041	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/20/2010	Phosphorus as P	Dissolved	=	0.37	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/20/2010	Phosphorus as P	Total	=	1.1	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	TKN	n/a	=	4.1	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	1,2,4-Trichlorobenzene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	1,2-Dichlorobenzene	n/a	<	3	µg/L	EPA 625	3	20	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	1,2-Diphenylhydrazine	n/a	<	3.5	µg/L	EPA 625	3.5	10	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	1,3-Dichlorobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	1,4-Dichlorobenzene	n/a	<	3.2	µg/L	EPA 625	3.2	10	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	2,4-Dinitrotoluene	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	2,6-Dinitrotoluene	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	2-Chloronaphthalene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	3,3'-Dichlorobenzidine	n/a	<	3	µg/L	EPA 625	3	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	4-Bromophenyl phenyl ether	n/a	<	2.3	µg/L	EPA 625	2.3	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	4-Chlorophenyl phenyl ether	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Benzidine	n/a	<	7	µg/L	EPA 625	7	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	GB,IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Bis(2-chloroethoxy)methane	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Bis(2-chloroethyl)ether	n/a	<	4.6	µg/L	EPA 625	4.6	10	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Bis(2-chloroisopropyl)ether	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	GB,IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	GB,IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Butyl benzyl phthalate	n/a	<	10	µg/L	EPA 625	10	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Diethyl phthalate	n/a	<	2.3	µg/L	EPA 625	2.3	20	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Dimethyl phthalate	n/a	<	2.6	µg/L	EPA 625	2.6	20	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Di-n-butylphthalate	n/a	<	5.3	µg/L	EPA 625	5.3	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Di-n-octylphthalate	n/a	<	2.8	µg/L	EPA 625	2.8	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Hexachlorobenzene	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Hexachlorobutadiene	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Hexachlorocyclopentadiene	n/a	<	50	µg/L	EPA 625	50	100	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Hexachloroethane	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Isophorone	n/a	<	3.3	µg/L	EPA 625	3.3	10	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	Nitrobenzene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	N-Nitrosodimethylamine	n/a	<	3.6	µg/L	EPA 625	3.6	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	N-Nitrosodi-N-propylamine	n/a	<	4.1	µg/L	EPA 625	4.1	50	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/19/2010	N-Nitrosodiphenylamine	n/a	<	2.3	µg/L	EPA 625	2.3	10	WKL	D
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/22/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/21/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	GB,IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	GB,IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	GB
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/8/2010	Glyphosate	n/a	=	6.2	µg/L	EPA 547	1.8	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	IL
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/15/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/26/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2010/11-1	Wet	6/2010 12:30:00	10/25/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	GB
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	1/2010 4:35:00	E. Coli	n/a	=	12033	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	2/2010 10:00:00	Fecal Coliform	n/a	=	17000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	1/2010 4:35:00	Total Coliform	n/a	=	155310	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	0/2010 7:45:00	Conductivity	n/a	=	147.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	11/30/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	0/2010 7:45:00	DO	n/a	=	88.9	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	0/2010 7:45:00	DO	n/a	=	9	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	0/2010 7:45:00	pH	n/a	=	7.75	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	0/2010 7:45:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	0/2010 7:45:00	Specific Conductance	n/a	=	183	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	0/2010 7:45:00	Temperature	n/a	=	14.8	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	12/6/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	12/6/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	11/24/2010	Mercury	Total	DNQ	22	ng/L	EPA 245.1	3.9	50	WKL	IP
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	11/30/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-OJA	2010/11-3	Wet	0/2010 7:45:00	11/30/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Chloride	n/a	=	29	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Fluoride	n/a	DNQ	0.087	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/29/2010	Calcium	Total	=	29	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/29/2010	Magnesium	Total	=	7.9	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	Alkalinity as CaCO3	n/a	=	66	mg/L	SM 2320 B	1.2	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/27/2010	BOD	n/a	=	230	mg/L	SM 5210 B	0.1	2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/24/2010	COD	n/a	=	720	mg/L	EPA 410.4	1.8	5	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/29/2010	Hardness as CaCO3	Total	=	110	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/22/2010	MBAS	n/a	=	0.12	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	12/6/2010	Phenolics	n/a	=	0.1	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/23/2010	Specific Conductance	n/a	=	310	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/23/2010	Total Dissolved Solids	n/a	=	160	mg/L	SM 2540 C	4	10	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	12/1/2010	Total Organic Carbon	n/a	=	180	mg/L	SM 5310 C	3.2	30	WKL	D
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/22/2010	Total Suspended Solids	n/a	=	230	mg/L	SM 2540 D	5	5	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/22/2010	Turbidity	n/a	=	27	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/22/2010	Volatile Suspended Solids	n/a	=	20	mg/L	EPA 160.4	3.1	5	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Aluminum	Dissolved	=	24	µg/L	EPA 200.8	0.19	5	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Aluminum	Total	=	2200	µg/L	EPA 200.8	0.19	5	WKL	GB
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Antimony	Dissolved	DNQ	0.29	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Antimony	Total	=	0.58	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Arsenic	Total	=	1.7	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Beryllium	Total	=	0.1	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Cadmium	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Cadmium	Total	=	0.18	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Chromium	Dissolved	=	0.41	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Chromium	Total	=	4.4	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/24/2010	Chromium VI	n/a	DNQ	0.083	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	12/1/2010	Copper	Dissolved	=	2.7	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Copper	Total	=	13	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Iron	Dissolved	=	46	µg/L	EPA 200.8	0.6	20	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Iron	Total	=	2800	µg/L	EPA 200.8	0.6	20	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Lead	Dissolved	=	0.29	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Lead	Total	=	5	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/24/2010	Mercury	Dissolved	DNQ	12	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/24/2010	Mercury	Total	DNQ	27	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Nickel	Dissolved	=	1	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Nickel	Total	=	5	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Selenium	Dissolved	DNQ	0.33	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Selenium	Total	=	0.43	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Silver	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Silver	Total	DNQ	0.08	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	12/1/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Thallium	Total	DNQ	0.13	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Zinc	Dissolved	=	20	µg/L	EPA 200.8	0.3	5	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/30/2010	Zinc	Total	=	76	µg/L	EPA 200.8	0.3	5	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	12/2/2010	Ammonia as N	n/a	=	0.21	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/22/2010	Nitrate + Nitrite as N	n/a	=	0.35	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	11/22/2010	Nitrate as N	n/a	=	0.35	mg/L	EPA 353.2	0.041	0.1	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	12/1/2010	Phosphorus as P	Dissolved	=	0.18	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	12/1/2010	Phosphorus as P	Total	=	0.36	mg/L	EPA 365.1	0.007	0.05	WKL	D,GB
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	12/9/2010	TKN	n/a	=	1.5	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OJA	2010/11-3	Wet	11/2010 7:40:00	12/4/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.3	µg/L	EPA 525.2	1.1	3	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Diethyl phthalate	n/a	DNQ	0.64	µg/L	EPA 625	0.23	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/4/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/10/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	4,4'-DDE	n/a	DNQ	0.0035	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	4,4'-DDT	n/a	DNQ	0.0051	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Chlorpyrifos	n/a	=	0.016	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/23/2010	Glyphosate	n/a	=	10	µg/L	EPA 547	1.8	5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/2/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	11/30/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/15/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2010/11-3	Wet	1/2010 7:40:00	12/18/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	EUM,GB

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	7/2011 5:45:00	E. Coli	n/a	=	7701	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	0/2011 9:10:00	Fecal Coliform	n/a	=	5000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	7/2011 5:45:00	Total Coliform	n/a	=	15531	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	6/2011 7:35:00	Conductivity	n/a	=	98.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	3/1/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	6/2011 7:35:00	DO	n/a	=	89.3	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	6/2011 7:35:00	DO	n/a	=	9.47	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	6/2011 7:35:00	pH	n/a	=	7.75	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	6/2011 7:35:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	6/2011 7:35:00	Specific Conductance	n/a	=	127.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	6/2011 7:35:00	Temperature	n/a	=	12.8	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	2/24/2011	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	2/25/2011	Mercury	Total	DNQ	12	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
MO-OJA	2010/11-4	Wet	6/2011 7:35:00	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Chloride	n/a	=	26	mg/L	EPA 300.0	1	5	WKL	D
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Fluoride	n/a	=	0.13	mg/L	EPA 300.0	0.02	0.1	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/3/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/1/2011	Calcium	Total	=	36	mg/L	EPA 200.7	0.016	0.1	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/1/2011	Magnesium	Total	=	9.2	mg/L	EPA 200.7	0.012	0.1	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	2/23/2011	Alkalinity as CaCO3	n/a	=	89	mg/L	SM 2320 B	1.2	10	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	2/23/2011	BOD	n/a	=	13	mg/L	SM 5210 B	0.1	2	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	2/18/2011	COD	n/a	=	67	mg/L	EPA 410.4	1.8	5	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/1/2011	Hardness as CaCO3	Total	=	130	mg/L	EPA 200.7	0.089	0.66	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	2/18/2011	MBAS	n/a	=	0.28	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	2/25/2011	Phenolics	n/a	=	0.049	mg/L	EPA 420.4	0.0016	0.01	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	2/24/2011	Specific Conductance	n/a	=	400	µmhos/cm	SM 2510 B	0.23	2	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	2/18/2011	Total Dissolved Solids	n/a	=	220	mg/L	SM 2540 C	4	10	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/1/2011	Total Organic Carbon	n/a	=	6	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	2/18/2011	Total Suspended Solids	n/a	=	180	mg/L	SM 2540 D	5	5	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	2/18/2011	Turbidity	n/a	=	26	NTU	EPA 180.1	0.024	0.1	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	2/18/2011	Volatile Suspended Solids	n/a	=	44	mg/L	EPA 160.4	3.1	5	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Aluminum	Dissolved	=	23	µg/L	EPA 200.8	0.19	5	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Aluminum	Total	=	1800	µg/L	EPA 200.8	3.8	100	WKL	D
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Antimony	Dissolved	DNQ	0.28	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Antimony	Total	=	0.63	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Arsenic	Dissolved	=	0.89	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Arsenic	Total	=	1.7	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/3/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/3/2011	Beryllium	Total	DNQ	0.089	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Cadmium	Total	=	0.21	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Chromium	Dissolved	=	0.36	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Chromium	Total	=	3.8	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	2/25/2011	Chromium VI	n/a	DNQ	0.19	µg/L	EPA 218.6	0.0059	0.3	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Copper	Dissolved	=	3.4	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-OJA	2010/11-4	Wet	7/2011 11:23:00	3/2/2011	Copper	Total	=	14	µg/L	EPA 200.8	0.022	0.5	WKL	X

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2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Iron	Dissolved	=	34	µg/L	EPA 200.8	0.6	20	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Iron	Total	=	2600	µg/L	EPA 200.8	0.6	20	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Lead	Dissolved	DNQ	0.099	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Lead	Total	=	5.7	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/3/2011	Mercury	Dissolved	DNQ	19	ng/L	EPA 245.1	3.9	50	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/3/2011	Mercury	Total	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Nickel	Dissolved	=	1.1	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Nickel	Total	=	4.9	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Selenium	Dissolved	DNQ	0.21	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Selenium	Total	=	0.4	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Silver	Dissolved	DNQ	0.012	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Silver	Total	DNQ	0.049	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Thallium	Total	DNQ	0.03	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Zinc	Dissolved	=	20	µg/L	EPA 200.8	0.3	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Zinc	Total	=	100	µg/L	EPA 200.8	0.3	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/4/2011	Ammonia as N	n/a	=	0.19	mg/L	EPA 350.1	0.048	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	0.48	mg/L	EPA 353.2	0.01	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/18/2011	Nitrate as N	n/a	=	0.48	mg/L	EPA 353.2	0.041	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Phosphorus as P	Dissolved	=	0.13	mg/L	EPA 365.1	0.0014	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Phosphorus as P	Total	=	0.39	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/3/2011	TKN	n/a	=	1.4	mg/L	EPA 351.2	0.074	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.8	µg/L	EPA 525.2	1.1	3	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Diethyl phthalate	n/a	DNQ	0.42	µg/L	EPA 625	0.23	2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Fluoranthene	n/a	DNQ	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	4,4'-DDE	n/a	DNQ	0.0073	µg/L	EPA 608	0.0025	0.05	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	4,4'-DDT	n/a	DNQ	0.0039	µg/L	EPA 608	0.0031	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/22/2011	Glyphosate	n/a	DNQ	4.4	µg/L	EPA 547	1.8	5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	Pentachlorophenol	n/a	=	0.21	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	2/23/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/2/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	IL
MO-OJA	2010/11-4	Wet	/2011 11:23:00	3/7/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Chloride	n/a	=	150	mg/L	EPA 300.0	1	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Fluoride	n/a	=	0.52	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Perchlorate	n/a	<	3.2	µg/L	EPA 314.0	3.2	10	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Calcium	Total	=	180	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Magnesium	Total	=	51	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	Alkalinity as CaCO3	n/a	=	400	mg/L	SM 2320 B	1.2	10	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	BOD	n/a	DNQ	0.91	mg/L	SM 5210 B	0.1	2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/20/2011	COD	n/a	DNQ	2.9	mg/L	EPA 410.4	1.8	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Hardness as CaCO3	Total	=	670	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/20/2011	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/2/2011	Phenolics	n/a	=	0.046	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Specific Conductance	n/a	=	1600	µmhos/cm	SM 2510 B	0.47	4	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Total Dissolved Solids	n/a	=	1300	mg/L	SM 2540 C	4	10	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	Total Organic Carbon	n/a	=	2	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/21/2011	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/20/2011	Turbidity	n/a	=	0.57	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/21/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Aluminum	Dissolved	DNQ	4.1	µg/L	EPA 200.8	0.19	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Aluminum	Total	=	16	µg/L	EPA 200.8	0.19	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Antimony	Dissolved	DNQ	0.13	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Antimony	Total	DNQ	0.13	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Arsenic	Dissolved	=	0.54	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Arsenic	Total	=	0.58	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Cadmium	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Cadmium	Total	DNQ	0.046	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Chromium	Dissolved	DNQ	0.15	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Chromium	Total	DNQ	0.19	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/21/2011	Chromium VI	n/a	<	0.03	µg/L	EPA 218.6	0.03	1.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Copper	Dissolved	=	4.7	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Copper	Total	=	5.5	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Iron	Dissolved	=	24	µg/L	EPA 200.8	0.6	20	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Iron	Total	=	44	µg/L	EPA 200.8	0.6	20	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Lead	Dissolved	DNQ	0.044	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Lead	Total	DNQ	0.18	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Mercury	Dissolved	DNQ	33	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Mercury	Total	DNQ	35	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Nickel	Dissolved	=	3.5	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Nickel	Total	=	3.8	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Selenium	Dissolved	=	1.5	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Selenium	Total	=	1.7	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Silver	Dissolved	DNQ	0.023	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Silver	Total	DNQ	0.019	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Zinc	Dissolved	=	7.9	µg/L	EPA 200.8	0.3	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/27/2011	Zinc	Total	=	7.7	µg/L	EPA 200.8	0.3	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/2/2011	Ammonia as N	n/a	DNQ	0.062	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/20/2011	Nitrate + Nitrite as N	n/a	=	3.1	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/20/2011	Nitrate as N	n/a	=	3.1	mg/L	EPA 353.2	0.041	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Phosphorus as P	Dissolved	=	0.041	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Phosphorus as P	Total	=	0.048	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/4/2011	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	

Appendix G
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Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Diethyl phthalate	n/a	DNQ	0.42	µg/L	EPA 625	0.23	2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/26/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/25/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/21/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/28/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/29/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	5/3/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2010/11-5	Dry	/2011 10:55:00	4/22/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	/2011 10:00:00	E. Coli	n/a	=	187	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	3/2011 1:22:00	Fecal Coliform	n/a	=	240	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	/2011 10:00:00	Total Coliform	n/a	=	4884	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	/2011 11:00:00	Conductivity	n/a	=	1280	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	4/27/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	/2011 11:00:00	DO	n/a	=	15.72	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	/2011 11:00:00	DO	n/a	=	167.1	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	/2011 11:00:00	pH	n/a	=	7.51	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	/2011 11:00:00	Salinity	n/a	=	0.0000007	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	/2011 11:00:00	Specific Conductance	n/a	=	1441	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	/2011 11:00:00	Temperature	n/a	=	19.1	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	4/22/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	4/22/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	4/25/2011	Mercury	Total	DNQ	33	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	4/20/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-OJA	2010/11-5	Dry	/2011 11:00:00	4/20/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OXN	2010/11-1	Wet	5/2010 2:15:00	7/2010 4:10:00	E. Coli	n/a	=	19863	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-OXN	2010/11-1	Wet	5/2010 2:15:00	/2010 10:13:00	Fecal Coliform	n/a	=	24000	MPN/100 mL	SM 9221 E	2	2	VCHCA	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	7/2010 4:10:00	Total Coliform	n/a	=	1145000	MPN/100 mL	MMO-MUG	10000	10000	VCHCA	D
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	6/2010 2:15:00	Conductivity	n/a	=	124.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	6/2010 2:15:00	DO	n/a	=	8.77	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	6/2010 2:15:00	DO	n/a	=	93	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	6/2010 2:15:00	pH	n/a	=	6.58	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	6/2010 2:15:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	6/2010 2:15:00	Specific Conductance	n/a	=	144.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	6/2010 2:15:00	Temperature	n/a	=	17.5	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	10/12/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	X
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	10/11/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
MO-OXN	2010/11-1	Wet	6/2010 2:15:00	10/11/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	1/2010 11:57:00	Chloride	n/a	=	13	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/11/2010	Fluoride	n/a	=	0.13	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/14/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Calcium	Total	=	16	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Magnesium	Total	=	4.3	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	9/2010 4:31:00	Alkalinity as CaCO3	n/a	=	38	mg/L	SM 2320 B	1.2	2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	BOD	n/a	=	17	mg/L	SM 5210 B	0.1	2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/8/2010	COD	n/a	=	110	mg/L	EPA 410.4	1.8	5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Hardness as CaCO3	Total	=	58	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/8/2010	MBAS	n/a	=	0.51	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	8/2010 3:20:00	Phenolics	n/a	=	0.064	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Specific Conductance	n/a	=	180	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/11/2010	Total Dissolved Solids	n/a	=	120	mg/L	SM 2540 C	4	10	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	4/2010 11:37:00	Total Organic Carbon	n/a	=	17	mg/L	SM 5310 C	0.32	3	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	190	mg/L	SM 2540 D	5	5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	7/2010 6:27:00	Turbidity	n/a	=	27	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	62	mg/L	EPA 160.4	3.1	5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Aluminum	Dissolved	=	24	µg/L	EPA 200.8	0.19	5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Aluminum	Total	=	2000	µg/L	EPA 200.8	0.19	5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Antimony	Dissolved	=	1.2	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Antimony	Total	=	2.4	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Arsenic	Total	=	2	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Beryllium	Total	=	0.1	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Cadmium	Dissolved	DNQ	0.066	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Cadmium	Total	=	0.44	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Chromium	Dissolved	=	0.56	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Chromium	Total	=	5.5	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	7/2010 10:30:00	Chromium VI	n/a	DNQ	0.1	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Copper	Dissolved	=	12	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Copper	Total	=	54	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Iron	Dissolved	=	70	µg/L	EPA 200.8	0.6	20	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Iron	Total	=	3800	µg/L	EPA 200.8	0.6	20	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Lead	Dissolved	=	0.39	µg/L	EPA 200.8	0.017	0.2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Lead	Total	=	14	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	Mercury	Dissolved	DNQ	35	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	Mercury	Total	=	60	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Nickel	Dissolved	=	4.9	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Nickel	Total	=	10	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Selenium	Dissolved	DNQ	0.28	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Selenium	Total	=	0.6	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Silver	Total	DNQ	0.065	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Thallium	Total	DNQ	0.043	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Zinc	Dissolved	=	76	µg/L	EPA 200.8	0.3	5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Zinc	Total	=	250	µg/L	EPA 200.8	0.3	5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/13/2010	Ammonia as N	n/a	=	0.7	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	7/2010 4:23:00	Nitrate + Nitrite as N	n/a	=	0.58	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/20/2010	Phosphorus as P	Dissolved	=	0.26	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/20/2010	Phosphorus as P	Total	=	0.56	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	TKN	n/a	=	3.1	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	1,2,4-Trichlorobenzene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	1,2-Dichlorobenzene	n/a	<	3	µg/L	EPA 625	3	20	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	1,2-Diphenylhydrazine	n/a	<	3.5	µg/L	EPA 625	3.5	10	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	1,3-Dichlorobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	1,4-Dichlorobenzene	n/a	<	3.2	µg/L	EPA 625	3.2	10	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	2,4-Dinitrotoluene	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	2,6-Dinitrotoluene	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	2-Chloronaphthalene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	3,3'-Dichlorobenzidine	n/a	<	3	µg/L	EPA 625	3	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	4-Bromophenyl phenyl ether	n/a	<	2.3	µg/L	EPA 625	2.3	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	4-Chlorophenyl phenyl ether	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Benz(a)anthracene	n/a	DNQ	0.33	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Benzidine	n/a	<	7	µg/L	EPA 625	7	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Benzo(b)fluoranthene	n/a	DNQ	0.19	µg/L	EPA 8270Cm	0.15	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Benzo(g,h,i)perylene	n/a	DNQ	0.16	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Benzo(k)fluoranthene	n/a	DNQ	0.18	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Bis(2-chloroethoxy)methane	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Bis(2-chloroethyl)ether	n/a	<	4.6	µg/L	EPA 625	4.6	10	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Bis(2-chloroisopropyl)ether	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Butyl benzyl phthalate	n/a	<	10	µg/L	EPA 625	10	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Chrysene	n/a	DNQ	0.18	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Diethyl phthalate	n/a	<	2.3	µg/L	EPA 625	2.3	20	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Dimethyl phthalate	n/a	<	2.6	µg/L	EPA 625	2.6	20	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Di-n-butylphthalate	n/a	<	5.3	µg/L	EPA 625	5.3	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Di-n-octylphthalate	n/a	<	2.8	µg/L	EPA 625	2.8	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Fluoranthene	n/a	DNQ	0.31	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Hexachlorobenzene	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Hexachlorobutadiene	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Hexachlorocyclopentadiene	n/a	<	50	µg/L	EPA 625	50	100	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Hexachloroethane	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Isophorone	n/a	<	3.3	µg/L	EPA 625	3.3	10	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	Nitrobenzene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	N-Nitrosodimethylamine	n/a	<	3.6	µg/L	EPA 625	3.6	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	N-Nitrosodi-N-propylamine	n/a	<	4.1	µg/L	EPA 625	4.1	50	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/19/2010	N-Nitrosodiphenylamine	n/a	<	2.3	µg/L	EPA 625	2.3	10	WKL	D
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/22/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/21/2010	Pyrene	n/a	DNQ	0.3	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	4,4'-DDE	n/a	DNQ	0.0075	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	4,4'-DDT	n/a	DNQ	0.0053	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	DCPA (Dacthal)	n/a	=	0.13	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/8/2010	Glyphosate	n/a	=	12	µg/L	EPA 547	1.8	5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/15/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2010/11-1	Wet	6/2010 1:40:00	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	1/2010 3:30:00	E. Coli	n/a	=	11199	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	/2010 10:04:00	Fecal Coliform	n/a	=	11000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	1/2010 3:30:00	Total Coliform	n/a	=	275500	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	0/2010 3:40:00	Conductivity	n/a	=	37	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	0/2010 3:40:00	DO	n/a	=	10.79	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	0/2010 3:40:00	DO	n/a	=	103.3	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	0/2010 3:40:00	pH	n/a	=	7.44	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	0/2010 3:40:00	Salinity	n/a	<	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	0/2010 3:40:00	Specific Conductance	n/a	=	46.9	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	0/2010 3:40:00	Temperature	n/a	=	13.9	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	11/10/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	11/4/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 3:40:00	11/4/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/6/2010	Chloride	n/a	=	15	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/6/2010	Fluoride	n/a	=	0.11	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Perchlorate	n/a	DNQ	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/8/2010	Calcium	Total	=	15	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/8/2010	Magnesium	Total	=	4.1	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/11/2010	Alkalinity as CaCO3	n/a	=	22	mg/L	SM 2320 B	1.2	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/4/2010	BOD	n/a	=	16	mg/L	SM 5210 B	0.1	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/3/2010	COD	n/a	=	160	mg/L	EPA 410.4	1.8	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/8/2010	Hardness as CaCO3	Total	=	53	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	0/2010 11:45:00	MBAS	n/a	=	0.7	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/10/2010	Phenolics	n/a	=	0.016	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/4/2010	Specific Conductance	n/a	=	140	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/5/2010	Total Dissolved Solids	n/a	=	99	mg/L	SM 2540 C	4	10	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/10/2010	Total Organic Carbon	n/a	=	14	mg/L	SM 5310 C	0.32	3	WKL	D

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/5/2010	Total Suspended Solids	n/a	=	250	mg/L	SM 2540 D	5	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	0/2010 8:26:00	Turbidity	n/a	=	83	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/5/2010	Volatile Suspended Solids	n/a	=	59	mg/L	EPA 160.4	3.1	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Aluminum	Dissolved	=	20	µg/L	EPA 200.8	0.19	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/10/2010	Aluminum	Total	=	3200	µg/L	EPA 200.8	19	500	WKL	D
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Antimony	Dissolved	=	0.86	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Antimony	Total	=	2.4	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Arsenic	Dissolved	=	0.86	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Arsenic	Total	=	2.8	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Beryllium	Total	=	0.18	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Cadmium	Dissolved	DNQ	0.065	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Cadmium	Total	=	0.64	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Chromium	Dissolved	=	0.46	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Chromium	Total	=	7.4	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/5/2010	Chromium VI	n/a	DNQ	0.16	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Copper	Dissolved	=	11	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Copper	Total	=	83	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Iron	Dissolved	=	59	µg/L	EPA 200.8	0.6	20	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Iron	Total	=	5600	µg/L	EPA 200.8	0.6	20	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Lead	Dissolved	=	0.84	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Lead	Total	=	24	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/11/2010	Mercury	Dissolved	DNQ	36	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/11/2010	Mercury	Total	=	50	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Nickel	Dissolved	=	2.3	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Nickel	Total	=	10	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Selenium	Dissolved	DNQ	0.3	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Selenium	Total	=	0.63	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Silver	Total	DNQ	0.085	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Thallium	Total	DNQ	0.062	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Zinc	Dissolved	=	48	µg/L	EPA 200.8	0.3	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/9/2010	Zinc	Total	=	310	µg/L	EPA 200.8	0.3	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Ammonia as N	n/a	=	0.64	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	0/2010 9:02:00	Nitrate + Nitrite as N	n/a	=	0.91	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/18/2010	Phosphorus as P	Dissolved	=	0.21	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Phosphorus as P	Total	=	0.89	mg/L	EPA 365.1	0.035	0.25	WKL	D
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	TKN	n/a	=	2.7	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/17/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Butyl benzyl phthalate	n/a	DNQ	1.3	µg/L	EPA 625	1	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Diethyl phthalate	n/a	DNQ	0.68	µg/L	EPA 625	0.23	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/15/2010	4,4'-DDE	n/a	DNQ	0.03	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/15/2010	4,4'-DDT	n/a	=	0.023	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Chlorpyrifos	n/a	=	0.035	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	IL
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	GB,IL
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	GB
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/4/2010	Glyphosate	n/a	=	12	µg/L	EPA 547	1.8	5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Malathion	n/a	=	0.13	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/16/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/14/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	12/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2010/11-2	Wet	0/2010 12:10:00	11/29/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	7/2011 5:00:00	E. Coli	n/a	=	2014	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	0/2011 9:02:00	Fecal Coliform	n/a	=	3000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	7/2011 5:00:00	Total Coliform	n/a	=	141360	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	6/2011 4:40:00	Conductivity	n/a	=	52.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	3/3/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	H
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	6/2011 4:40:00	DO	n/a	=	100	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	6/2011 4:40:00	DO	n/a	=	10.35	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	6/2011 4:40:00	pH	n/a	=	7.53	pH Units	Field Meter	-88	0.01	Field Crew	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	6/2011 4:40:00	Salinity	n/a	<	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	6/2011 4:40:00	Specific Conductance	n/a	=	66.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	6/2011 4:40:00	Temperature	n/a	=	13.9	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	2/24/2011	Oil and Grease	n/a	DNQ	2.9	mg/L	EPA 1664A	2	5	WKL	
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
MO-OXN	2010/11-4	Wet	6/2011 4:40:00	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Chloride	n/a	=	3.1	mg/L	EPA 300.0	0.1	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Fluoride	n/a	=	0.1	mg/L	EPA 300.0	0.02	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/4/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Calcium	Total	=	6.7	mg/L	EPA 200.7	0.016	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Magnesium	Total	=	1.4	mg/L	EPA 200.7	0.012	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	Alkalinity as CaCO3	n/a	=	19	mg/L	SM 2320 B	1.2	10	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	BOD	n/a	=	13	mg/L	SM 5210 B	0.1	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/18/2011	COD	n/a	=	45	mg/L	EPA 410.4	1.8	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Hardness as CaCO3	Total	=	22	mg/L	EPA 200.7	0.089	0.66	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/18/2011	MBAS	n/a	=	0.18	mg/L	SM 5540 C	0.019	0.05	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/25/2011	Phenolics	n/a	=	0.041	mg/L	EPA 420.4	0.0016	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/24/2011	Specific Conductance	n/a	=	72	µmhos/cm	SM 2510 B	0.23	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/18/2011	Total Dissolved Solids	n/a	=	69	mg/L	SM 2540 C	4	10	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Total Organic Carbon	n/a	=	7.7	mg/L	SM 5310 C	0.045	1.5	WKL	D
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/18/2011	Total Suspended Solids	n/a	=	120	mg/L	SM 2540 D	5	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/18/2011	Turbidity	n/a	=	13	NTU	EPA 180.1	0.024	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/18/2011	Volatile Suspended Solids	n/a	=	23	mg/L	EPA 160.4	3.1	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Aluminum	Dissolved	=	18	µg/L	EPA 200.8	0.19	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Aluminum	Total	=	710	µg/L	EPA 200.8	0.19	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Antimony	Dissolved	=	0.69	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Antimony	Total	=	1.2	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Arsenic	Dissolved	=	0.6	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Arsenic	Total	=	0.94	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/3/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/3/2011	Beryllium	Total	DNQ	0.028	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Cadmium	Dissolved	DNQ	0.053	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Cadmium	Total	=	0.17	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Chromium	Dissolved	=	0.48	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Chromium	Total	=	2	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/25/2011	Chromium VI	n/a	DNQ	0.25	µg/L	EPA 218.6	0.0059	0.3	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Copper	Dissolved	=	7.7	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Copper	Total	=	16	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Iron	Dissolved	=	24	µg/L	EPA 200.8	0.6	20	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Iron	Total	=	1100	µg/L	EPA 200.8	0.6	20	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Lead	Dissolved	DNQ	0.14	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Lead	Total	=	4.2	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/3/2011	Mercury	Dissolved	DNQ	21	ng/L	EPA 245.1	3.9	50	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/3/2011	Mercury	Total	DNQ	29	ng/L	EPA 245.1	3.9	50	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Nickel	Dissolved	=	1.3	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Nickel	Total	=	3	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Selenium	Dissolved	DNQ	0.19	µg/L	EPA 200.8	0.017	0.4	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Selenium	Total	DNQ	0.26	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Silver	Total	DNQ	0.016	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Zinc	Dissolved	=	39	µg/L	EPA 200.8	0.3	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Zinc	Total	=	91	µg/L	EPA 200.8	0.3	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/4/2011	Ammonia as N	n/a	=	0.35	mg/L	EPA 350.1	0.048	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	0.53	mg/L	EPA 353.2	0.01	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Phosphorus as P	Dissolved	=	0.13	mg/L	EPA 365.1	0.0014	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Phosphorus as P	Total	=	0.24	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/3/2011	TKN	n/a	=	1.1	mg/L	EPA 351.2	0.074	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.3	µg/L	EPA 525.2	1.1	3	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Diethyl phthalate	n/a	DNQ	0.78	µg/L	EPA 625	0.23	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	4,4'-DDE	n/a	DNQ	0.0058	µg/L	EPA 608	0.0025	0.05	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	4,4'-DDT	n/a	DNQ	0.0053	µg/L	EPA 608	0.0031	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/22/2011	Glyphosate	n/a	=	10	µg/L	EPA 547	1.8	5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Malathion	n/a	=	0.16	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	2/23/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/2/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	IL
MO-OXN	2010/11-4	Wet	/2011 10:27:00	3/7/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/3/2011	Chloride	n/a	=	140	mg/L	EPA 300.0	1	5	WKL	D
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/3/2011	Fluoride	n/a	=	1	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/2/2011	Perchlorate	n/a	<	1.3	µg/L	EPA 314.0	1.3	4	WKL	D
MO-OXN	2010/11-5	Dry	/2011 11:15:00	9/2011 8:10:00	E. Coli	n/a	=	213	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	/2011 12:51:00	Fecal Coliform	n/a	=	310	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	9/2011 8:10:00	Total Coliform	n/a	=	17329	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/5/2011	Calcium	Total	=	61	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/5/2011	Magnesium	Total	=	19	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Alkalinity as CaCO3	n/a	=	93	mg/L	SM 2320 B	1.2	10	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	BOD	n/a	=	4.7	mg/L	SM 5210 B	0.1	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/2/2011	COD	n/a	=	58	mg/L	EPA 410.4	1.8	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	/2011 11:15:00	Conductivity	n/a	=	316.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	/2011 11:15:00	DO	n/a	=	233.7	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	/2011 11:15:00	DO	n/a	=	17.37	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/5/2011	Hardness as CaCO3	Total	=	230	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	4/29/2011	MBAS	n/a	=	0.21	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-OXN	2010/11-5	Dry	/2011 11:15:00	/2011 11:15:00	pH	n/a	=	8.82	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/9/2011	Phenolics	n/a	=	0.036	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	/2011 11:15:00	Salinity	n/a	=	0.0000002	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	Specific Conductance	n/a	=	910	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	/2011 11:15:00	Specific Conductance	n/a	=	331.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	/2011 11:15:00	Temperature	n/a	=	29.1	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	Total Dissolved Solids	n/a	=	670	mg/L	SM 2540 C	4	10	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Total Organic Carbon	n/a	=	16	mg/L	SM 5310 C	0.09	3	WKL	D
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	Total Suspended Solids	n/a	=	32	mg/L	SM 2540 D	5	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	4/29/2011	Turbidity	n/a	=	4.2	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	Volatile Suspended Solids	n/a	=	6	mg/L	EPA 160.4	3.1	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/2/2011	Oil and Grease	n/a	DNQ	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/2/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Aluminum	Dissolved	DNQ	3	µg/L	EPA 200.8	0.19	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Aluminum	Total	=	170	µg/L	EPA 200.8	0.19	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Antimony	Dissolved	=	0.8	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Antimony	Total	=	0.78	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Arsenic	Dissolved	=	2.5	µg/L	EPA 200.8	0.014	0.4	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Arsenic	Total	=	2.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Cadmium	Dissolved	=	0.1	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Cadmium	Total	=	0.11	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Chromium	Dissolved	DNQ	0.16	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Chromium	Total	=	0.53	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Chromium VI	n/a	<	0.03	µg/L	EPA 218.6	0.03	1.5	WKL	D
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Copper	Dissolved	=	33	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Copper	Total	=	37	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Iron	Dissolved	=	22	µg/L	EPA 200.8	0.6	20	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Iron	Total	=	310	µg/L	EPA 200.8	0.6	20	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Lead	Dissolved	=	0.44	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Lead	Total	=	1.1	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Mercury	Dissolved	DNQ	9	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Mercury	Total	DNQ	15	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Nickel	Dissolved	=	1.9	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Nickel	Total	=	2.1	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Selenium	Dissolved	=	1.2	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Selenium	Total	=	1.3	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Silver	Total	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Zinc	Dissolved	=	21	µg/L	EPA 200.8	0.3	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Zinc	Total	=	19	µg/L	EPA 200.8	0.3	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/9/2011	Ammonia as N	n/a	=	0.19	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	4/29/2011	Nitrate + Nitrite as N	n/a	DNQ	0.046	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Phosphorus as P	Dissolved	=	0.056	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Phosphorus as P	Total	=	0.25	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/5/2011	TKN	n/a	=	1.3	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	4/29/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	EUM

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Bis(2-ethylhexyl)phthalate	n/a	=	11	µg/L	EPA 525.2	1.1	3	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Diethyl phthalate	n/a	DNQ	0.66	µg/L	EPA 625	0.23	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	4/29/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/11/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Phenol	n/a	DNQ	0.48	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/7/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/12/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/16/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/16/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/16/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/16/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/16/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/16/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/16/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/16/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/4/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/6/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/16/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OXN	2010/11-5	Dry	/2011 11:15:00	5/10/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/10/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/6/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/10/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/10/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	4/29/2011	Glyphosate	n/a	=	16	µg/L	EPA 547	1.8	5	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/10/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/10/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/10/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/6/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/6/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/6/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/12/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/4/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/4/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/6/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/6/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/6/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/6/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/6/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/10/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/16/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2010/11-5	Dry	4/2011 11:15:00	5/6/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	7/2010 5:20:00	E. Coli	n/a	=	10462	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	4/2010 10:28:00	Fecal Coliform	n/a	=	90000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	7/2010 5:20:00	Total Coliform	n/a	=	2909000	MPN/100 mL	MMO-MUG	10000	10000	VCHCA	D
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	6/2010 5:45:00	Conductivity	n/a	=	185	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	6/2010 5:45:00	DO	n/a	=	83.1	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	6/2010 5:45:00	DO	n/a	=	8	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	6/2010 5:45:00	pH	n/a	=	7.2	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	6/2010 5:45:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	6/2010 5:45:00	Specific Conductance	n/a	=	223	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	6/2010 5:45:00	Temperature	n/a	=	16.3	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	10/12/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	X
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	10/11/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-1	Wet	6/2010 5:45:00	10/11/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Chloride	n/a	=	41	mg/L	EPA 300.0	1	5	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Fluoride	n/a	=	0.26	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/14/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Calcium	Total	=	97	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Magnesium	Total	=	24	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	9/2010 1:44:00	Alkalinity as CaCO3	n/a	=	160	mg/L	SM 2320 B	1.2	10	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	BOD	n/a	=	18	mg/L	SM 5210 B	0.1	2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/11/2010	COD	n/a	=	120	mg/L	EPA 410.4	1.8	5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Hardness as CaCO3	Total	=	340	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/9/2010	MBAS	n/a	=	0.44	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	8/2010 3:20:00	Phenolics	n/a	=	0.07	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/19/2010	Specific Conductance	n/a	=	800	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	3/2010 5:45:00	Total Dissolved Solids	n/a	=	480	mg/L	SM 2540 C	4	10	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	0/2010 9:40:00	Total Organic Carbon	n/a	=	21	mg/L	SM 5310 C	0.64	6	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	1100	mg/L	SM 2540 D	5	5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	8/2010 4:14:00	Turbidity	n/a	=	44	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	220	mg/L	EPA 160.4	3.1	5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Aluminum	Dissolved	=	85	µg/L	EPA 200.8	0.19	5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/18/2010	Aluminum	Total	=	2500	µg/L	EPA 200.8	9.5	250	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Antimony	Dissolved	=	1.3	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Antimony	Total	=	2.8	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Arsenic	Dissolved	=	1.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Arsenic	Total	=	3.4	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Beryllium	Total	DNQ	0.092	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Cadmium	Dissolved	=	0.1	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Cadmium	Total	=	0.92	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Chromium	Dissolved	=	0.81	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Chromium	Total	=	6.5	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/9/2010	Chromium VI	n/a	=	0.41	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Copper	Dissolved	=	5.6	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Copper	Total	=	42	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Iron	Dissolved	=	64	µg/L	EPA 200.8	0.6	20	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Iron	Total	=	4000	µg/L	EPA 200.8	0.6	20	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Lead	Dissolved	=	0.42	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Lead	Total	=	13	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/18/2010	Mercury	Dissolved	DNQ	33	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/18/2010	Mercury	Total	DNQ	49	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Nickel	Dissolved	=	6.5	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Nickel	Total	=	15	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Selenium	Dissolved	=	5.9	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Selenium	Total	=	6.2	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Silver	Total	DNQ	0.091	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Thallium	Total	DNQ	0.053	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Zinc	Dissolved	=	41	µg/L	EPA 200.8	0.3	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/13/2010	Zinc	Total	=	170	µg/L	EPA 200.8	0.3	5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Ammonia as N	n/a	=	1.1	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	2/2010 1:20:00	Nitrate + Nitrite as N	n/a	=	1.7	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Phosphorus as P	Dissolved	=	0.18	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Phosphorus as P	Total	=	0.67	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	TKN	n/a	=	4.9	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	1,2,4-Trichlorobenzene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	1,2-Dichlorobenzene	n/a	<	3	µg/L	EPA 625	3	20	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	1,2-Diphenylhydrazine	n/a	<	3.5	µg/L	EPA 625	3.5	10	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	1,3-Dichlorobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	1,4-Dichlorobenzene	n/a	<	3.2	µg/L	EPA 625	3.2	10	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	2,4-Dinitrotoluene	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	2,6-Dinitrotoluene	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	2-Chloronaphthalene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	3,3'-Dichlorobenzidine	n/a	<	3	µg/L	EPA 625	3	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	4-Bromophenyl phenyl ether	n/a	<	2.3	µg/L	EPA 625	2.3	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	4-Chlorophenyl phenyl ether	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Benzidine	n/a	<	7	µg/L	EPA 625	7	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Bis(2-chloroethoxy)methane	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Bis(2-chloroethyl)ether	n/a	<	4.6	µg/L	EPA 625	4.6	10	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Bis(2-chloroisopropyl)ether	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	DNQ	0.39	µg/L	EPA 525.2	0.23	5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Butyl benzyl phthalate	n/a	<	10	µg/L	EPA 625	10	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Diethyl phthalate	n/a	DNQ	3.9	µg/L	EPA 625	2.3	20	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Dimethyl phthalate	n/a	<	2.6	µg/L	EPA 625	2.6	20	WKL	D

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Di-n-butylphthalate	n/a	<	5.3	µg/L	EPA 625	5.3	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Di-n-octylphthalate	n/a	<	2.8	µg/L	EPA 625	2.8	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Hexachlorobenzene	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Hexachlorobutadiene	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Hexachlorocyclopentadiene	n/a	<	50	µg/L	EPA 625	50	100	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Hexachloroethane	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Isophorone	n/a	<	3.3	µg/L	EPA 625	3.3	10	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Nitrobenzene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	N-Nitrosodimethylamine	n/a	<	3.6	µg/L	EPA 625	3.6	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	N-Nitrosodi-N-propylamine	n/a	<	4.1	µg/L	EPA 625	4.1	50	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	N-Nitrosodiphenylamine	n/a	<	2.3	µg/L	EPA 625	2.3	10	WKL	D
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/22/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/20/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	4,4'-DDE	n/a	DNQ	0.0048	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	DCPA (Dacthal)	n/a	=	0.2	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	Dicamba	n/a	DNQ	0.37	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	8/2010 4:41:00	Glyphosate	n/a	=	10	µg/L	EPA 547	1.8	5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Heptachlor	n/a	DNQ	0.0034	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Malathion	n/a	=	0.14	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/16/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	11/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2010/11-1	Wet	/2010 10:00:00	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	1/2010 3:30:00	E. Coli	n/a	=	48840	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	2/2010 9:40:00	Fecal Coliform	n/a	=	30000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	1/2010 3:30:00	Total Coliform	n/a	=	2419200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	0/2010 6:31:00	Conductivity	n/a	=	183	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	0/2010 6:31:00	DO	n/a	=	8.57	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	0/2010 6:31:00	DO	n/a	=	86.8	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	0/2010 6:31:00	pH	n/a	=	7.6	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	0/2010 6:31:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	0/2010 6:31:00	Specific Conductance	n/a	=	221.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	0/2010 6:31:00	Temperature	n/a	=	15.7	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	11/10/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	11/3/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 6:31:00	11/3/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	Chloride	n/a	=	12	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	Fluoride	n/a	=	0.1	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/9/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/5/2010	Calcium	Total	=	25	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/5/2010	Magnesium	Total	=	6	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/11/2010	Alkalinity as CaCO3	n/a	=	45	mg/L	SM 2320 B	1.2	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/4/2010	BOD	n/a	=	10	mg/L	SM 5210 B	0.1	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/3/2010	COD	n/a	=	67	mg/L	EPA 410.4	1.8	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/5/2010	Hardness as CaCO3	Total	=	88	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	0/2010 11:45:00	MBAS	n/a	=	0.23	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Phenolics	n/a	=	0.012	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/4/2010	Specific Conductance	n/a	=	220	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/5/2010	Total Dissolved Solids	n/a	=	150	mg/L	SM 2540 C	4	10	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Total Organic Carbon	n/a	=	9.7	mg/L	SM 5310 C	0.32	3	WKL	D
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/5/2010	Total Suspended Solids	n/a	=	120	mg/L	SM 2540 D	5	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	0/2010 8:26:00	Turbidity	n/a	=	48	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/5/2010	Volatile Suspended Solids	n/a	=	26	mg/L	EPA 160.4	3.1	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Aluminum	Dissolved	=	23	µg/L	EPA 200.8	0.19	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Aluminum	Total	=	2100	µg/L	EPA 200.8	3.8	100	WKL	D
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Antimony	Dissolved	=	0.54	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Antimony	Total	=	1.3	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Arsenic	Total	=	2.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Beryllium	Total	=	0.11	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Cadmium	Dissolved	DNQ	0.034	µg/L	EPA 200.8	0.013	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Cadmium	Total	=	0.45	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Chromium	Dissolved	=	0.57	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Chromium	Total	=	5.5	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/5/2010	Chromium VI	n/a	=	0.35	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Copper	Dissolved	=	5.6	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Copper	Total	=	22	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Iron	Dissolved	=	32	µg/L	EPA 200.8	0.6	20	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Iron	Total	=	3500	µg/L	EPA 200.8	0.6	20	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Lead	Dissolved	=	0.36	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Lead	Total	=	17	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/11/2010	Mercury	Dissolved	DNQ	32	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/11/2010	Mercury	Total	=	50	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Nickel	Dissolved	=	1.6	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Nickel	Total	=	7.2	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Selenium	Dissolved	=	1.3	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Selenium	Total	=	1.2	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Silver	Total	DNQ	0.071	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Thallium	Total	DNQ	0.043	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Zinc	Dissolved	=	15	µg/L	EPA 200.8	0.3	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/10/2010	Zinc	Total	=	130	µg/L	EPA 200.8	0.3	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Ammonia as N	n/a	=	0.55	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	0/2010 9:02:00	Nitrate + Nitrite as N	n/a	=	0.85	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/18/2010	Phosphorus as P	Dissolved	=	0.36	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Phosphorus as P	Total	=	0.61	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	TKN	n/a	=	1.9	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/17/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Diethyl phthalate	n/a	=	2.7	µg/L	EPA 625	0.23	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Naphthalene	n/a	DNQ	0.13	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/16/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/15/2010	4,4'-DDE	n/a	DNQ	0.0093	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/15/2010	4,4'-DDT	n/a	DNQ	0.0082	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	DCPA (Dacthal)	n/a	DNQ	0.064	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/4/2010	Glyphosate	n/a	DNQ	3.7	µg/L	EPA 547	1.8	5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	Pentachlorophenol	n/a	DNQ	0.13	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/6/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/14/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	12/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2010/11-2	Wet	0/2010 10:40:00	11/29/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00	7/2011 5:00:00 A	E. Coli	n/a	=	2143	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-SIM	2010/11-4	Wet	6/2011 6:45:00	9/2011 8:58:00 A	Fecal Coliform	n/a	=	2400	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00	7/2011 5:00:00 A	Total Coliform	n/a	=	120330	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-SIM	2010/11-4	Wet	6/2011 6:45:00	6/2011 6:45:00 A	Conductivity	n/a	=	346	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00 A	3/1/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00	6/2011 6:45:00 A	DO	n/a	=	83.3	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00	6/2011 6:45:00 A	DO	n/a	=	8.52	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00	6/2011 6:45:00 A	Salinity	n/a	=	0.0000002	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00	6/2011 6:45:00 A	Specific Conductance	n/a	=	443.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00	6/2011 6:45:00 A	Temperature	n/a	=	14.2	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00 A	2/24/2011	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00 A	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00 A	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
MO-SIM	2010/11-4	Wet	6/2011 6:45:00 A	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Chloride	n/a	=	51	mg/L	EPA 300.0	0.1	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Fluoride	n/a	=	0.21	mg/L	EPA 300.0	0.02	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/3/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Calcium	Total	=	88	mg/L	EPA 200.7	0.016	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Magnesium	Total	=	28	mg/L	EPA 200.7	0.012	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/23/2011	Alkalinity as CaCO3	n/a	=	100	mg/L	SM 2320 B	1.2	10	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	2/23/2011	BOD	n/a	=	14	mg/L	SM 5210 B	0.1	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	2/18/2011	COD	n/a	=	32	mg/L	EPA 410.4	1.8	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Hardness as CaCO3	Total	=	340	mg/L	EPA 200.7	0.089	0.66	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	2/18/2011	MBAS	n/a	=	0.17	mg/L	SM 5540 C	0.019	0.05	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	2/25/2011	Phenolics	n/a	DNQ	0.0056	mg/L	EPA 420.4	0.0016	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	2/23/2011	Specific Conductance	n/a	=	930	µmhos/cm	SM 2510 B	0.23	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	2/18/2011	Total Dissolved Solids	n/a	=	620	mg/L	SM 2540 C	4	10	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/2/2011	Total Organic Carbon	n/a	=	8.7	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	2/18/2011	Total Suspended Solids	n/a	=	100	mg/L	SM 2540 D	5	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	2/18/2011	Turbidity	n/a	=	5.8	NTU	EPA 180.1	0.024	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	2/18/2011	Volatile Suspended Solids	n/a	=	31	mg/L	EPA 160.4	3.1	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Aluminum	Dissolved	=	5.9	µg/L	EPA 200.8	0.19	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Aluminum	Total	=	190	µg/L	EPA 200.8	0.19	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Antimony	Dissolved	=	0.97	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Antimony	Total	=	1.2	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Arsenic	Dissolved	=	1.3	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Arsenic	Total	=	1.7	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Cadmium	Dissolved	DNQ	0.062	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Cadmium	Total	=	0.13	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Chromium	Dissolved	=	0.93	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Chromium	Total	=	1.6	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	2/25/2011	Chromium VI	n/a	=	0.69	µg/L	EPA 218.6	0.0059	0.3	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Copper	Dissolved	=	6	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Copper	Total	=	9	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Iron	Dissolved	=	180	µg/L	EPA 200.8	0.6	20	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Iron	Total	=	640	µg/L	EPA 200.8	0.6	20	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Lead	Dissolved	DNQ	0.051	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Lead	Total	=	1.6	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/3/2011	Mercury	Dissolved	DNQ	13	ng/L	EPA 245.1	3.9	50	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/3/2011	Mercury	Total	DNQ	17	ng/L	EPA 245.1	3.9	50	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Nickel	Dissolved	=	2.8	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Nickel	Total	=	3.6	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Selenium	Dissolved	=	7.8	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Selenium	Total	=	8.6	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Silver	Total	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Zinc	Dissolved	=	12	µg/L	EPA 200.8	0.3	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/1/2011	Zinc	Total	=	28	µg/L	EPA 200.8	0.3	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/4/2011	Ammonia as N	n/a	=	0.32	mg/L	EPA 350.1	0.048	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	2.6	mg/L	EPA 353.2	0.01	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/7/2011	Phosphorus as P	Dissolved	=	0.092	mg/L	EPA 365.1	0.0014	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/7/2011	Phosphorus as P	Total	=	0.16	mg/L	EPA 365.1	0.0014	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/7/2011	TKN	n/a	=	1.3	mg/L	EPA 351.2	0.074	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.3	µg/L	EPA 525.2	1.1	3	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Diethyl phthalate	n/a	=	3.4	µg/L	EPA 625	0.23	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	Glyphosate	n/a	=	23	µg/L	EPA 547	1.8	5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	2/22/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/1/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-SIM	2010/11-4	Wet	7/2011 7:30:00 A	3/4/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/3/2011	Chloride	n/a	=	190	mg/L	EPA 300.0	1	5	WKL	D
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/3/2011	Fluoride	n/a	=	0.56	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/3/2011	Perchlorate	n/a	DNQ	17	µg/L	EPA 314.0	6.4	20	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	9/2011 8:10:00 A	E. Coli	n/a	=	98	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	1/2011 12:04:00 I	Fecal Coliform	n/a	=	500	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	9/2011 8:10:00 A	Total Coliform	n/a	=	5794	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/5/2011	Calcium	Total	=	300	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/5/2011	Magnesium	Total	=	110	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Alkalinity as CaCO3	n/a	=	240	mg/L	SM 2320 B	1.2	10	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/4/2011	BOD	n/a	DNQ	1	mg/L	SM 5210 B	0.1	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/2/2011	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	3/2011 8:50:00 A	Conductivity	n/a	=	398	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	3/2011 8:50:00 A	DO	n/a	=	9	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	3/2011 8:50:00 A	DO	n/a	=	96.1	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/5/2011	Hardness as CaCO3	Total	=	1200	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	4/29/2011	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	3/2011 8:50:00 A	pH	n/a	=	8.06	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/9/2011	Phenolics	n/a	=	0.039	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	3/2011 8:50:00 A	Salinity	n/a	=	0.0000002	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	3/2011 8:50:00 A	Specific Conductance	n/a	=	445.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/4/2011	Specific Conductance	n/a	=	3000	µmhos/cm	SM 2510 B	1.2	10	WKL	D
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	3/2011 8:50:00 A	Temperature	n/a	=	18.8	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/4/2011	Total Dissolved Solids	n/a	=	2400	mg/L	SM 2540 C	4	10	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Total Organic Carbon	n/a	=	1.8	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/4/2011	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	4/29/2011	Turbidity	n/a	=	0.35	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/4/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/2/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/2/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Aluminum	Dissolved	DNQ	1.4	µg/L	EPA 200.8	0.19	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Aluminum	Total	DNQ	4.9	µg/L	EPA 200.8	0.19	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Antimony	Dissolved	DNQ	0.18	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Antimony	Total	DNQ	0.16	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Arsenic	Total	=	1.4	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Cadmium	Dissolved	=	0.13	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Cadmium	Total	=	0.2	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Chromium	Dissolved	=	1.6	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Chromium	Total	=	1.6	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/7/2011	Chromium VI	n/a	DNQ	1.4	µg/L	EPA 218.6	0.03	1.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Copper	Dissolved	=	1.2	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Copper	Total	=	1.7	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Iron	Dissolved	DNQ	6.9	µg/L	EPA 200.8	0.6	20	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Iron	Total	=	23	µg/L	EPA 200.8	0.6	20	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Lead	Total	DNQ	0.07	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Mercury	Total	DNQ	5	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Nickel	Dissolved	=	1.5	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Nickel	Total	=	1.6	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Selenium	Dissolved	=	41	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Selenium	Total	=	42	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Silver	Total	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Zinc	Dissolved	DNQ	1.3	µg/L	EPA 200.8	0.3	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Zinc	Total	DNQ	1.2	µg/L	EPA 200.8	0.3	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/9/2011	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	4/29/2011	Nitrate + Nitrite as N	n/a	=	11	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Phosphorus as P	Dissolved	DNQ	0.0075	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Phosphorus as P	Total	=	0.012	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/5/2011	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	4/29/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	EUM
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/7/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/7/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/7/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/7/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/11/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/7/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/7/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/7/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/7/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/7/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Diethyl phthalate	n/a	=	3.8	µg/L	EPA 625	0.23	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/7/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/7/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/7/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	4/29/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/7/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/11/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/7/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	Phenol	n/a	DNQ	0.39	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/7/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/12/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/4/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/6/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	4/29/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/10/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00	5/16/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/16/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/16/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/12/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/4/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/16/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/4/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/16/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/16/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/16/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/10/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/16/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2010/11-5	Dry	3/2011 8:50:00 A	5/6/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	7/2010 5:20:00 A	E. Coli	n/a	=	17329	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	1/2010 10:16:00	Fecal Coliform	n/a	=	50000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	7/2010 5:20:00 A	Total Coliform	n/a	=	866400	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	6/2010 8:00:00 A	Conductivity	n/a	=	68.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	6/2010 8:00:00 A	DO	n/a	=	92.1	%	Field Meter	-88	0.1	Field Crew	
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	6/2010 8:00:00 A	DO	n/a	=	9.08	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	6/2010 8:00:00 A	pH	n/a	=	7.41	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	6/2010 8:00:00 A	Salinity	n/a	<	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	6/2010 8:00:00 A	Specific Conductance	n/a	=	83	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	6/2010 8:00:00 A	Temperature	n/a	=	16.1	°C	Field Meter	-88	0.1	Field Crew	
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	10/12/2010	Oil and Grease	n/a	DNQ	2.7	mg/L	EPA 1664A	2	5	WKL	J
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	10/11/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
MO-SPA	2010/11-1	Wet	6/2010 8:00:00 A	10/11/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/15/2010	Chloride	n/a	=	8.4	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/15/2010	Fluoride	n/a	=	0.12	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Perchlorate	n/a	<	1.6	µg/L	EPA 314.0	1.6	4	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/13/2010	Calcium	Total	=	25	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/13/2010	Magnesium	Total	=	5.7	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	9/2010 4:31:00	Alkalinity as CaCO3	n/a	=	35	mg/L	SM 2320 B	1.2	2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/13/2010	BOD	n/a	=	26	mg/L	SM 5210 B	0.1	2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/11/2010	COD	n/a	=	130	mg/L	EPA 410.4	1.8	5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/13/2010	Hardness as CaCO3	Total	=	85	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/9/2010	MBAS	n/a	=	0.9	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	8/2010 3:20:00	Phenolics	n/a	=	0.082	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/19/2010	Specific Conductance	n/a	=	190	µmhos/cm	SM 2510 B	0.23	2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	3/2010 5:45:00	Total Dissolved Solids	n/a	=	150	mg/L	SM 2540 C	4	10	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	0/2010 9:40:00	Total Organic Carbon	n/a	=	34	mg/L	SM 5310 C	0.64	6	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	170	mg/L	SM 2540 D	5	5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	8/2010 4:14:00	Turbidity	n/a	=	66	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	45	mg/L	EPA 160.4	3.1	5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Aluminum	Dissolved	=	37	µg/L	EPA 200.8	0.19	5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/18/2010	Aluminum	Total	=	3500	µg/L	EPA 200.8	9.5	250	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Antimony	Dissolved	=	0.78	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Antimony	Total	=	1.7	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Arsenic	Dissolved	=	0.84	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Arsenic	Total	=	2.2	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Beryllium	Total	=	0.15	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Cadmium	Dissolved	=	0.12	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Cadmium	Total	=	0.85	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Chromium	Dissolved	=	0.88	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Chromium	Total	=	8	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/9/2010	Chromium VI	n/a	DNQ	0.14	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Copper	Dissolved	=	13	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Copper	Total	=	47	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Iron	Dissolved	=	120	µg/L	EPA 200.8	0.6	20	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Iron	Total	=	5900	µg/L	EPA 200.8	0.6	20	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Lead	Dissolved	=	2.1	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Lead	Total	=	39	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/18/2010	Mercury	Dissolved	DNQ	34	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/18/2010	Mercury	Total	=	58	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Nickel	Dissolved	=	6.4	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Nickel	Total	=	15	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Selenium	Dissolved	=	0.44	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Selenium	Total	=	0.56	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Silver	Total	DNQ	0.11	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Thallium	Total	DNQ	0.051	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Zinc	Dissolved	=	120	µg/L	EPA 200.8	0.3	5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/13/2010	Zinc	Total	=	370	µg/L	EPA 200.8	0.3	5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Ammonia as N	n/a	=	1.3	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	/2010 11:32:00	Nitrate + Nitrite as N	n/a	=	1.4	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/26/2010	Phosphorus as P	Dissolved	=	0.58	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/26/2010	Phosphorus as P	Total	=	0.94	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	TKN	n/a	=	4.1	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	1,2,4-Trichlorobenzene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	1,2-Dichlorobenzene	n/a	<	3	µg/L	EPA 625	3	20	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	1,2-Diphenylhydrazine	n/a	<	3.5	µg/L	EPA 625	3.5	10	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	1,3-Dichlorobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	1,4-Dichlorobenzene	n/a	<	3.2	µg/L	EPA 625	3.2	10	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	2,4-Dinitrotoluene	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	2,6-Dinitrotoluene	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	2-Chloronaphthalene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	3,3'-Dichlorobenzidine	n/a	<	3	µg/L	EPA 625	3	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	4-Bromophenyl phenyl ether	n/a	<	2.3	µg/L	EPA 625	2.3	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	4-Chlorophenyl phenyl ether	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/22/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Benzidine	n/a	<	7	µg/L	EPA 625	7	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Bis(2-chloroethoxy)methane	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Bis(2-chloroethyl)ether	n/a	<	4.6	µg/L	EPA 625	4.6	10	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Bis(2-chloroisopropyl)ether	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	DNQ	0.5	µg/L	EPA 525.2	0.23	5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Butyl benzyl phthalate	n/a	<	10	µg/L	EPA 625	10	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Diethyl phthalate	n/a	<	2.3	µg/L	EPA 625	2.3	20	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Dimethyl phthalate	n/a	<	2.6	µg/L	EPA 625	2.6	20	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Di-n-butylphthalate	n/a	<	5.3	µg/L	EPA 625	5.3	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Di-n-octylphthalate	n/a	<	2.8	µg/L	EPA 625	2.8	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Fluoranthene	n/a	DNQ	0.23	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Hexachlorobenzene	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Hexachlorobutadiene	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Hexachlorocyclopentadiene	n/a	<	50	µg/L	EPA 625	50	100	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Hexachloroethane	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Isophorone	n/a	<	3.3	µg/L	EPA 625	3.3	10	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	Nitrobenzene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	10/20/2010	N-Nitrosodimethylamine	n/a	<	3.6	µg/L	EPA 625	3.6	50	WKL	D

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/20/2010	N-Nitrosodi-N-propylamine	n/a	<	4.1	µg/L	EPA 625	4.1	50	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/20/2010	N-Nitrosodiphenylamine	n/a	<	2.3	µg/L	EPA 625	2.3	10	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/20/2010	Phenanthrene	n/a	DNQ	0.16	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/22/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/20/2010	Pyrene	n/a	DNQ	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	EUM
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	4,4'-DDE	n/a	DNQ	0.0091	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/19/2010	4,4'-DDT	n/a	=	0.016	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	DCPA (Dacthal)	n/a	=	0.26	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	delta-BHC	n/a	=	0.0066	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00	8/2010 4:41:00	Glyphosate	n/a	=	12	µg/L	EPA 547	3.6	10	WKL	D
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	Pentachlorophenol	n/a	=	0.46	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/16/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	11/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2010/11-1	Wet	7/2010 8:40:00 A	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	1/2010 3:30:00	E. Coli	n/a	=	17329	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	2/2010 9:34:00 A	Fecal Coliform	n/a	=	50000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	1/2010 3:30:00	Total Coliform	n/a	=	241920	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	0/2010 4:42:00	Conductivity	n/a	=	14.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	0/2010 4:42:00	DO	n/a	=	9.2	mg/L	Field Meter	-88	0.3	Field Crew	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	0/2010 4:42:00	DO	n/a	=	91	%	Field Meter	-88	0.1	Field Crew	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	0/2010 4:42:00	pH	n/a	=	7.51	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	0/2010 4:42:00	Salinity	n/a	<	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	0/2010 4:42:00	Specific Conductance	n/a	=	17.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	0/2010 4:42:00	Temperature	n/a	=	14.8	°C	Field Meter	-88	0.1	Field Crew	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	11/10/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	11/3/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 4:42:00	11/3/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	Chloride	n/a	=	4.7	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	Fluoride	n/a	DNQ	0.068	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/9/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/5/2010	Calcium	Total	=	12	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/5/2010	Magnesium	Total	=	2.9	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/11/2010	Alkalinity as CaCO3	n/a	=	25	mg/L	SM 2320 B	1.2	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/4/2010	BOD	n/a	=	22	mg/L	SM 5210 B	0.1	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/3/2010	COD	n/a	=	120	mg/L	EPA 410.4	1.8	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/5/2010	Hardness as CaCO3	Total	=	43	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	0/2010 11:45:00	MBAS	n/a	=	0.84	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Phenolics	n/a	=	0.048	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/4/2010	Specific Conductance	n/a	=	110	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/5/2010	Total Dissolved Solids	n/a	=	92	mg/L	SM 2540 C	4	10	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Total Organic Carbon	n/a	=	19	mg/L	SM 5310 C	0.32	3	WKL	D
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/5/2010	Total Suspended Solids	n/a	=	180	mg/L	SM 2540 D	5	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	0/2010 8:26:00	Turbidity	n/a	=	89	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/5/2010	Volatile Suspended Solids	n/a	=	50	mg/L	EPA 160.4	3.1	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Aluminum	Dissolved	=	22	µg/L	EPA 200.8	0.19	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Aluminum	Total	=	2400	µg/L	EPA 200.8	3.8	100	WKL	D
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Antimony	Dissolved	=	0.63	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Antimony	Total	=	1.3	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Arsenic	Dissolved	=	0.71	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Arsenic	Total	=	1.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Beryllium	Total	=	0.11	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Cadmium	Dissolved	=	0.12	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Cadmium	Total	=	0.57	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Chromium	Dissolved	=	0.64	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Chromium	Total	=	5.6	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/5/2010	Chromium VI	n/a	DNQ	0.29	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Copper	Dissolved	=	11	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Copper	Total	=	29	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Iron	Dissolved	=	47	µg/L	EPA 200.8	0.6	20	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Iron	Total	=	3800	µg/L	EPA 200.8	0.6	20	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Lead	Dissolved	=	1.6	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Lead	Total	=	21	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/11/2010	Mercury	Dissolved	DNQ	34	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/11/2010	Mercury	Total	=	61	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Nickel	Dissolved	=	3.1	µg/L	EPA 200.8	0.011	0.8	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Nickel	Total	=	8.5	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Selenium	Dissolved	DNQ	0.36	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Selenium	Total	=	0.4	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Silver	Total	DNQ	0.073	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Thallium	Total	DNQ	0.037	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Zinc	Dissolved	=	58	µg/L	EPA 200.8	0.3	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/10/2010	Zinc	Total	=	190	µg/L	EPA 200.8	0.3	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Ammonia as N	n/a	=	0.57	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	0/2010 9:02:00	Nitrate + Nitrite as N	n/a	=	1	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/18/2010	Phosphorus as P	Dissolved	=	0.31	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/18/2010	Phosphorus as P	Total	=	0.69	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	TKN	n/a	=	2.4	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/17/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Butyl benzyl phthalate	n/a	DNQ	1.1	µg/L	EPA 625	1	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Diethyl phthalate	n/a	DNQ	0.69	µg/L	EPA 625	0.23	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Fluoranthene	n/a	DNQ	0.23	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Phenanthrene	n/a	DNQ	0.21	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/16/2010	Pyrene	n/a	DNQ	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/15/2010	4,4'-DDE	n/a	DNQ	0.017	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/15/2010	4,4'-DDT	n/a	=	0.022	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	

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MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Chlorpyrifos	n/a	=	0.14	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	DCPA (Dacthal)	n/a	=	0.11	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/4/2010	Glyphosate	n/a	DNQ	3.9	µg/L	EPA 547	1.8	5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Malathion	n/a	=	0.67	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	

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MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	Pentachlorophenol	n/a	=	0.36	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/6/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/14/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	12/1/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2010/11-2	Wet	0/2010 9:40:00	11/29/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	7/2011 5:00:00	E. Coli	n/a	=	850	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	0/2011 8:53:00	Fecal Coliform	n/a	=	900	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	7/2011 5:00:00	Total Coliform	n/a	=	241920	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	6/2011 4:42:00	Conductivity	n/a	=	33.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	3/1/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	6/2011 4:42:00	DO	n/a	=	106.5	%	Field Meter	-88	0.1	Field Crew	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	6/2011 4:42:00	DO	n/a	=	11.06	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	6/2011 4:42:00	Salinity	n/a	<	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	6/2011 4:42:00	Specific Conductance	n/a	=	45.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	6/2011 4:42:00	Temperature	n/a	=	13.5	°C	Field Meter	-88	0.1	Field Crew	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	2/24/2011	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
MO-SPA	2010/11-4	Wet	6/2011 4:42:00	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	3/1/2011	Chloride	n/a	=	3.7	mg/L	EPA 300.0	0.1	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	3/1/2011	Fluoride	n/a	DNQ	0.08	mg/L	EPA 300.0	0.02	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	3/3/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	3/1/2011	Calcium	Total	=	13	mg/L	EPA 200.7	0.016	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	3/1/2011	Magnesium	Total	=	3.3	mg/L	EPA 200.7	0.012	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	2/23/2011	Alkalinity as CaCO3	n/a	=	38	mg/L	SM 2320 B	1.2	10	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	2/23/2011	BOD	n/a	=	16	mg/L	SM 5210 B	0.1	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	2/18/2011	COD	n/a	=	75	mg/L	EPA 410.4	1.8	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	3/1/2011	Hardness as CaCO3	Total	=	47	mg/L	EPA 200.7	0.089	0.66	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	2/18/2011	MBAS	n/a	=	0.18	mg/L	SM 5540 C	0.019	0.05	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	2/25/2011	Phenolics	n/a	=	0.055	mg/L	EPA 420.4	0.0016	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	2/23/2011	Specific Conductance	n/a	=	140	µmhos/cm	SM 2510 B	0.23	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	2/18/2011	Total Dissolved Solids	n/a	=	100	mg/L	SM 2540 C	4	10	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	3/1/2011	Total Organic Carbon	n/a	=	11	mg/L	SM 5310 C	0.09	3	WKL	D
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	2/18/2011	Total Suspended Solids	n/a	=	330	mg/L	SM 2540 D	5	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	2/18/2011	Turbidity	n/a	=	21	NTU	EPA 180.1	0.024	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	2/18/2011	Volatile Suspended Solids	n/a	=	91	mg/L	EPA 160.4	3.1	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	3/1/2011	Aluminum	Dissolved	=	16	µg/L	EPA 200.8	0.19	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00	3/1/2011	Aluminum	Total	=	1500	µg/L	EPA 200.8	0.19	5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Antimony	Dissolved	=	0.52	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Antimony	Total	=	0.98	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Arsenic	Dissolved	=	0.63	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Arsenic	Total	=	1.4	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Beryllium	Total	DNQ	0.091	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Cadmium	Dissolved	=	0.11	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Cadmium	Total	=	0.38	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Chromium	Dissolved	=	0.48	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Chromium	Total	=	3.8	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/25/2011	Chromium VI	n/a	DNQ	0.18	µg/L	EPA 218.6	0.0059	0.3	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Copper	Dissolved	=	7.5	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Copper	Total	=	18	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Iron	Dissolved	=	54	µg/L	EPA 200.8	0.6	20	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Iron	Total	=	2800	µg/L	EPA 200.8	0.6	20	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Lead	Dissolved	=	0.34	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Lead	Total	=	14	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/3/2011	Mercury	Dissolved	DNQ	17	ng/L	EPA 245.1	3.9	50	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/3/2011	Mercury	Total	DNQ	30	ng/L	EPA 245.1	3.9	50	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Nickel	Dissolved	=	2.2	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Nickel	Total	=	5.4	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Selenium	Dissolved	DNQ	0.35	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Selenium	Total	=	0.55	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Silver	Dissolved	DNQ	0.026	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Silver	Total	DNQ	0.048	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Thallium	Total	DNQ	0.028	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Zinc	Dissolved	=	45	µg/L	EPA 200.8	0.3	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Zinc	Total	=	120	µg/L	EPA 200.8	0.3	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Ammonia as N	n/a	=	0.31	mg/L	EPA 350.1	0.048	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/18/2011	Nitrate + Nitrite as N	n/a	=	0.6	mg/L	EPA 353.2	0.01	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/7/2011	Phosphorus as P	Dissolved	=	0.22	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/7/2011	Phosphorus as P	Total	=	0.42	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/7/2011	TKN	n/a	=	1.8	mg/L	EPA 351.2	0.074	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.5	µg/L	EPA 525.2	1.1	3	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Diethyl phthalate	n/a	DNQ	0.85	µg/L	EPA 625	0.23	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Fluoranthene	n/a	DNQ	0.23	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Phenanthrene	n/a	DNQ	0.15	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	4,4'-DDE	n/a	DNQ	0.0089	µg/L	EPA 608	0.0025	0.05	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/7/2011	4,4'-DDT	n/a	=	0.012	µg/L	EPA 608	0.0031	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Chlorpyrifos	n/a	=	0.012	µg/L	EPA 525.2	0.0069	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Diazinon	n/a	=	0.15	µg/L	EPA 525.2	0.0052	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	Glyphosate	n/a	=	24	µg/L	EPA 547	1.8	5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Malathion	n/a	=	0.057	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	Pentachlorophenol	n/a	=	0.27	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	2/22/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Stirophos (Tetrachlorvinphos)	n/a	DNQ	0.0073	µg/L	EPA 525.2	0.0031	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/1/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-SPA	2010/11-4	Wet	7/2011 6:05:00 A	3/4/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	5/2/2011	Chloride	n/a	=	56	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	5/2/2011	Fluoride	n/a	=	0.61	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	5/3/2011	Perchlorate	n/a	<	3.2	µg/L	EPA 314.0	3.2	10	WKL	D
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	9/2011 8:10:00 A	E. Coli	n/a	=	631	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	2/2011 12:00:00 I	Fecal Coliform	n/a	=	2400	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	9/2011 8:10:00 A	Total Coliform	n/a	=	155310	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	5/5/2011	Calcium	Total	=	150	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	5/5/2011	Magnesium	Total	=	52	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	5/6/2011	Alkalinity as CaCO3	n/a	=	240	mg/L	SM 2320 B	1.2	10	WKL	
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	5/4/2011	BOD	n/a	=	3.9	mg/L	SM 5210 B	0.1	2	WKL	
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	5/2/2011	COD	n/a	=	13	mg/L	EPA 410.4	1.8	5	WKL	
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	8/2011 7:40:00 A	Conductivity	n/a	=	157.2	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2010/11-5	Dry	8/2011 7:40:00 A	5/6/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	3/2011 7:40:00	DO	n/a	=	77.9	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	3/2011 7:40:00	DO	n/a	=	7.84	%	Field Meter	-88	0.1	Field Crew	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/5/2011	Hardness as CaCO3	Total	=	590	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	4/29/2011	MBAS	n/a	=	0.27	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	3/2011 7:40:00	pH	n/a	=	8.31	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/9/2011	Phenolics	n/a	=	0.067	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	3/2011 7:40:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	3/2011 7:40:00	Specific Conductance	n/a	=	190.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Specific Conductance	n/a	=	1300	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	3/2011 7:40:00	Temperature	n/a	=	15.2	°C	Field Meter	-88	0.1	Field Crew	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Total Dissolved Solids	n/a	=	1200	mg/L	SM 2540 C	4	10	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Total Organic Carbon	n/a	=	8	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Total Suspended Solids	n/a	=	7	mg/L	SM 2540 D	5	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	4/29/2011	Turbidity	n/a	=	6.2	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/2/2011	Oil and Grease	n/a	DNQ	2.1	mg/L	EPA 1664A	1.3	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/2/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Aluminum	Dissolved	DNQ	2.7	µg/L	EPA 200.8	0.19	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Aluminum	Total	=	120	µg/L	EPA 200.8	0.19	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Antimony	Dissolved	DNQ	0.33	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Antimony	Total	DNQ	0.35	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Arsenic	Dissolved	=	1.3	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Arsenic	Total	=	1.4	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Cadmium	Dissolved	=	0.12	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Cadmium	Total	=	0.16	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Chromium	Dissolved	=	0.24	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Chromium	Total	=	0.51	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/7/2011	Chromium VI	n/a	<	0.03	µg/L	EPA 218.6	0.03	1.5	WKL	D
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Copper	Dissolved	=	11	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Copper	Total	=	12	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Iron	Dissolved	=	21	µg/L	EPA 200.8	0.6	20	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Iron	Total	=	210	µg/L	EPA 200.8	0.6	20	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Lead	Dissolved	DNQ	0.13	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Lead	Total	=	0.61	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Nickel	Dissolved	=	1.6	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Nickel	Total	=	2	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Selenium	Dissolved	=	4.2	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Selenium	Total	=	4.4	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Silver	Total	DNQ	0.01	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Zinc	Dissolved	=	15	µg/L	EPA 200.8	0.3	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Zinc	Total	=	19	µg/L	EPA 200.8	0.3	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/2/2011	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	4/29/2011	Nitrate + Nitrite as N	n/a	=	1.1	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	Phosphorus as P	Dissolved	=	0.22	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	Phosphorus as P	Total	=	0.26	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/5/2011	TKN	n/a	=	0.75	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	2,4,6-Trichlorophenol	n/a	DNQ	0.39	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	4/29/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	EUM
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/7/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/7/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/7/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/7/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/7/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/7/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/7/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/7/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/7/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	Diethyl phthalate	n/a	DNQ	0.47	µg/L	EPA 625	0.23	2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/11/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/11/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/11/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/7/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/7/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/11/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/11/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/11/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/11/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/7/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/11/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	4/29/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/7/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/11/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/11/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/11/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/11/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/7/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/7/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/12/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	4/29/2011	Glyphosate	n/a	=	15	µg/L	EPA 547	1.8	5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/10/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/12/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Pentachlorophenol	n/a	DNQ	0.12	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/4/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/6/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00	5/16/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/16/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/16/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/10/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/16/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2010/11-5	Dry	3/2011 7:40:00 A	5/6/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2010/11-1	Wet	6/2010 3:16:00	7/2010 5:20:00 A	E. Coli	n/a	=	43520	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-THO	2010/11-1	Wet	6/2010 3:16:00	1/2010 11:02:00	Fecal Coliform	n/a	=	90000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2010/11-1	Wet	6/2010 3:16:00	7/2010 5:20:00 A	Total Coliform	n/a	=	1935000	MPN/100 mL	MMO-MUG	10000	10000	VCHCA	D
MO-THO	2010/11-1	Wet	6/2010 3:16:00	6/2010 3:16:00 A	Conductivity	n/a	=	309	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2010/11-1	Wet	6/2010 3:16:00	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-THO	2010/11-1	Wet	6/2010 3:16:00	6/2010 3:16:00 A	DO	n/a	=	8.45	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2010/11-1	Wet	6/2010 3:16:00	6/2010 3:16:00 A	DO	n/a	=	86.1	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2010/11-1	Wet	6/2010 3:16:00	6/2010 3:16:00 A	pH	n/a	=	8.07	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2010/11-1	Wet	6/2010 3:16:00	6/2010 3:16:00 A	Salinity	n/a	=	0.0000002	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-THO	2010/11-1	Wet	6/2010 3:16:00	6/2010 3:16:00 A	Specific Conductance	n/a	=	376	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2010/11-1	Wet	6/2010 3:16:00	6/2010 3:16:00 A	Temperature	n/a	=	16.2	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2010/11-1	Wet	6/2010 3:16:00	10/12/2010	Oil and Grease	n/a	DNQ	2.2	mg/L	EPA 1664A	2	5	WKL	J
MO-THO	2010/11-1	Wet	6/2010 3:16:00	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
MO-THO	2010/11-1	Wet	6/2010 3:16:00	10/11/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
MO-THO	2010/11-1	Wet	6/2010 3:16:00	10/11/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Chloride	n/a	=	110	mg/L	EPA 300.0	1	5	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Fluoride	n/a	=	0.26	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Calcium	Total	=	80	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Magnesium	Total	=	54	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	9/2010 1:44:00	Alkalinity as CaCO3	n/a	=	160	mg/L	SM 2320 B	1.2	10	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	BOD	n/a	=	20	mg/L	SM 5210 B	0.1	2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/11/2010	COD	n/a	=	400	mg/L	EPA 410.4	1.8	5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Hardness as CaCO3	Total	=	420	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/9/2010	MBAS	n/a	DNQ	0.51	mg/L	SM 5540 C	0.38	1	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	8/2010 3:20:00	Phenolics	n/a	=	0.058	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/19/2010	Specific Conductance	n/a	=	930	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	3/2010 5:45:00	Total Dissolved Solids	n/a	=	640	mg/L	SM 2540 C	4	10	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	1/2010 10:58:00	Total Organic Carbon	n/a	=	22	mg/L	SM 5310 C	0.64	6	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	250	mg/L	SM 2540 D	5	5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	8/2010 4:14:00	Turbidity	n/a	=	60	NTU	EPA 180.1	0.024	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	52	mg/L	EPA 160.4	3.1	5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Aluminum	Dissolved	=	8	µg/L	EPA 200.8	0.19	5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/18/2010	Aluminum	Total	=	6000	µg/L	EPA 200.8	9.5	250	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Antimony	Dissolved	=	0.82	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Antimony	Total	=	1.1	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Arsenic	Dissolved	=	2.5	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Arsenic	Total	=	4.5	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Beryllium	Total	=	0.19	µg/L	EPA 200.8	0.022	0.1	WKL	

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2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Cadmium	Dissolved	DNQ	0.041	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Cadmium	Total	=	0.67	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Chromium	Dissolved	=	0.33	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Chromium	Total	=	17	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/9/2010	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Copper	Dissolved	=	3.5	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Copper	Total	=	30	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Iron	Dissolved	=	90	µg/L	EPA 200.8	0.6	20	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Iron	Total	=	9400	µg/L	EPA 200.8	0.6	20	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Lead	Dissolved	DNQ	0.066	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Lead	Total	=	6.9	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/18/2010	Mercury	Dissolved	DNQ	33	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/18/2010	Mercury	Total	=	62	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Nickel	Dissolved	=	4.8	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Nickel	Total	=	22	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Selenium	Dissolved	=	1.6	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Selenium	Total	=	2.8	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Silver	Total	DNQ	0.095	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Thallium	Total	DNQ	0.095	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Zinc	Dissolved	=	6.3	µg/L	EPA 200.8	0.3	5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/13/2010	Zinc	Total	=	96	µg/L	EPA 200.8	0.3	5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Ammonia as N	n/a	=	0.93	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	2/2010 1:20:00	Nitrate + Nitrite as N	n/a	=	0.96	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Phosphorus as P	Dissolved	=	0.22	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Phosphorus as P	Total	=	2.7	mg/L	EPA 365.1	0.028	0.2	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	TKN	n/a	=	14	mg/L	EPA 351.2	0.37	0.5	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	1,2,4-Trichlorobenzene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	1,2-Dichlorobenzene	n/a	<	3	µg/L	EPA 625	3	20	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	1,2-Diphenylhydrazine	n/a	<	3.5	µg/L	EPA 625	3.5	10	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	1,3-Dichlorobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	1,4-Dichlorobenzene	n/a	<	3.2	µg/L	EPA 625	3.2	10	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	2,4-Dinitrotoluene	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	2,6-Dinitrotoluene	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	2-Chloronaphthalene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	3,3'-Dichlorobenzidine	n/a	<	3	µg/L	EPA 625	3	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	4-Bromophenyl phenyl ether	n/a	<	2.3	µg/L	EPA 625	2.3	50	WKL	D

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	4-Chlorophenyl phenyl ether	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Benzidine	n/a	<	7	µg/L	EPA 625	7	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Bis(2-chloroethoxy)methane	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Bis(2-chloroethyl)ether	n/a	<	4.6	µg/L	EPA 625	4.6	10	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Bis(2-chloroisopropyl)ether	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Butyl benzyl phthalate	n/a	<	10	µg/L	EPA 625	10	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Diethyl phthalate	n/a	<	2.3	µg/L	EPA 625	2.3	20	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Dimethyl phthalate	n/a	DNQ	19	µg/L	EPA 625	2.6	20	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Di-n-butylphthalate	n/a	<	5.3	µg/L	EPA 625	5.3	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Di-n-octylphthalate	n/a	<	2.8	µg/L	EPA 625	2.8	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Hexachlorobenzene	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Hexachlorobutadiene	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Hexachlorocyclopentadiene	n/a	<	50	µg/L	EPA 625	50	100	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Hexachloroethane	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Isophorone	n/a	<	3.3	µg/L	EPA 625	3.3	10	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	Nitrobenzene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	N-Nitrosodimethylamine	n/a	<	3.6	µg/L	EPA 625	3.6	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	N-Nitrosodi-N-propylamine	n/a	<	4.1	µg/L	EPA 625	4.1	50	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/20/2010	N-Nitrosodiphenylamine	n/a	<	2.3	µg/L	EPA 625	2.3	10	WKL	D
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/23/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/21/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	4,4'-DDE	n/a	DNQ	0.0039	µg/L	EPA 608	0.0025	0.05	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	DCPA (Dacthal)	n/a	=	0.25	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Diazinon	n/a	DNQ	0.0079	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	8/2010 4:41:00	Glyphosate	n/a	=	16	µg/L	EPA 547	1.8	5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Malathion	n/a	=	0.064	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/16/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	11/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2010/11-1	Wet	/2010 10:30:00	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	1/2010 3:30:00	E. Coli	n/a	=	19863	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-THO	2010/11-2	Wet	0/2010 5:00:00	/2010 10:02:00	Fecal Coliform	n/a	=	24000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	1/2010 3:30:00	Total Coliform	n/a	=	57940	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-THO	2010/11-2	Wet	0/2010 5:00:00	0/2010 5:00:00	Conductivity	n/a	=	134.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	0/2010 5:00:00	DO	n/a	=	10.54	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	0/2010 5:00:00	DO	n/a	=	103	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	0/2010 5:00:00	pH	n/a	=	7.94	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	0/2010 5:00:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	0/2010 5:00:00	Specific Conductance	n/a	=	169.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	0/2010 5:00:00	Temperature	n/a	=	14	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	11/10/2010	Oil and Grease	n/a	DNQ	2.2	mg/L	EPA 1664A	2	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	11/4/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 5:00:00	11/4/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/6/2010	Chloride	n/a	=	69	mg/L	EPA 300.0	1	5	WKL	D
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/6/2010	Fluoride	n/a	=	0.15	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/8/2010	Calcium	Total	=	61	mg/L	EPA 200.7	0.016	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/8/2010	Magnesium	Total	=	39	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/6/2010	Alkalinity as CaCO3	n/a	=	120	mg/L	SM 2320 B	1.2	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/4/2010	BOD	n/a	=	13	mg/L	SM 5210 B	0.1	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/3/2010	COD	n/a	=	150	mg/L	EPA 410.4	1.8	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/8/2010	Hardness as CaCO3	Total	=	310	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:000	0/2010 11:45:00	MBAS	n/a	DNQ	0.028	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/10/2010	Phenolics	n/a	=	0.047	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/4/2010	Specific Conductance	n/a	=	620	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/5/2010	Total Dissolved Solids	n/a	=	380	mg/L	SM 2540 C	4	10	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/10/2010	Total Organic Carbon	n/a	=	9	mg/L	SM 5310 C	0.26	2.4	WKL	D
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/5/2010	Total Suspended Solids	n/a	=	730	mg/L	SM 2540 D	5	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:000	0/2010 8:26:00	Turbidity	n/a	=	200	NTU	EPA 180.1	0.024	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/5/2010	Volatile Suspended Solids	n/a	=	120	mg/L	EPA 160.4	3.1	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Aluminum	Dissolved	=	13	µg/L	EPA 200.8	0.19	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/10/2010	Aluminum	Total	=	13000	µg/L	EPA 200.8	19	500	WKL	D,GB
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Antimony	Dissolved	=	0.52	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Antimony	Total	=	0.74	µg/L	EPA 200.8	0.008	0.5	WKL	GB
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Arsenic	Dissolved	=	1.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Arsenic	Total	=	4.9	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Beryllium	Total	=	0.42	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Cadmium	Dissolved	DNQ	0.025	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Cadmium	Total	=	1.3	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Chromium	Dissolved	=	0.28	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Chromium	Total	=	37	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/5/2010	Chromium VI	n/a	DNQ	0.14	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Copper	Dissolved	=	2.3	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Copper	Total	=	43	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Iron	Dissolved	=	42	µg/L	EPA 200.8	0.6	20	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Iron	Total	=	18000	µg/L	EPA 200.8	0.6	20	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Lead	Dissolved	DNQ	0.082	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Lead	Total	=	16	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/11/2010	Mercury	Dissolved	DNQ	24	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/11/2010	Mercury	Total	=	90	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Nickel	Dissolved	=	2	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Nickel	Total	=	39	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Selenium	Dissolved	=	0.98	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Selenium	Total	=	2	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Silver	Dissolved	DNQ	0.012	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Silver	Total	=	0.22	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Thallium	Total	=	0.21	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Zinc	Dissolved	=	5	µg/L	EPA 200.8	0.3	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/9/2010	Zinc	Total	=	190	µg/L	EPA 200.8	0.3	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Ammonia as N	n/a	=	0.41	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:000	0/2010 9:02:00	Nitrate + Nitrite as N	n/a	=	0.83	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/18/2010	Phosphorus as P	Dissolved	=	0.17	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Phosphorus as P	Total	=	1.6	mg/L	EPA 365.1	0.035	0.25	WKL	D

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	TKN	n/a	=	3.8	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Diethyl phthalate	n/a	DNQ	0.45	µg/L	EPA 625	0.23	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Dimethyl phthalate	n/a	=	13	µg/L	EPA 625	0.26	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	4,4'-DDE	n/a	DNQ	0.0076	µg/L	EPA 608	0.0025	0.05	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	4,4'-DDT	n/a	DNQ	0.0048	µg/L	EPA 608	0.0031	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Chlorpyrifos	n/a	DNQ	0.0077	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/4/2010	Glyphosate	n/a	DNQ	3.4	µg/L	EPA 547	1.8	5	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Malathion	n/a	=	0.043	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/16/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/14/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-2	Wet	0/2010 11:10:00	12/2/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2010/11-2	Wet	0/2010 11:10:00	11/29/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	7/2011 5:00:00	E. Coli	n/a	=	12033	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-THO	2010/11-4	Wet	6/2011 6:15:00	9/2011 9:12:00	Fecal Coliform	n/a	=	17000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	7/2011 5:00:00	Total Coliform	n/a	=	120330	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-THO	2010/11-4	Wet	6/2011 6:15:00	6/2011 6:15:00	Conductivity	n/a	=	334	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	3/3/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	H
MO-THO	2010/11-4	Wet	6/2011 6:15:00	6/2011 6:15:00	DO	n/a	=	97.6	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	6/2011 6:15:00	DO	n/a	=	9.72	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	6/2011 6:15:00	pH	n/a	=	8.09	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	6/2011 6:15:00	Salinity	n/a	=	0.0000002	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	6/2011 6:15:00	Specific Conductance	n/a	=	425.9	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	6/2011 6:15:00	Temperature	n/a	=	13.7	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	2/24/2011	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
MO-THO	2010/11-4	Wet	6/2011 6:15:00	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Chloride	n/a	=	110	mg/L	EPA 300.0	1	5	WKL	D
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Fluoride	n/a	=	0.26	mg/L	EPA 300.0	0.02	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/3/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Calcium	Total	=	64	mg/L	EPA 200.7	0.016	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Magnesium	Total	=	47	mg/L	EPA 200.7	0.012	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/23/2011	Alkalinity as CaCO3	n/a	=	190	mg/L	SM 2320 B	1.2	10	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/23/2011	BOD	n/a	=	11	mg/L	SM 5210 B	0.1	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/18/2011	COD	n/a	=	42	mg/L	EPA 410.4	1.8	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Hardness as CaCO3	Total	=	350	mg/L	EPA 200.7	0.089	0.66	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/18/2011	MBAS	n/a	=	0.06	mg/L	SM 5540 C	0.019	0.05	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/25/2011	Phenolics	n/a	=	0.043	mg/L	EPA 420.4	0.0016	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/23/2011	Specific Conductance	n/a	=	1000	µmhos/cm	SM 2510 B	0.23	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/18/2011	Total Dissolved Solids	n/a	=	640	mg/L	SM 2540 C	4	10	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Total Organic Carbon	n/a	=	8.8	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/18/2011	Total Suspended Solids	n/a	=	77	mg/L	SM 2540 D	5	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/18/2011	Turbidity	n/a	=	9	NTU	EPA 180.1	0.024	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/18/2011	Volatile Suspended Solids	n/a	=	23	mg/L	EPA 160.4	3.1	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Aluminum	Dissolved	DNQ	3.5	µg/L	EPA 200.8	0.19	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Aluminum	Total	=	1200	µg/L	EPA 200.8	0.19	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Antimony	Dissolved	=	0.56	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Antimony	Total	=	0.63	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Arsenic	Dissolved	=	2	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Arsenic	Total	=	2.5	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Beryllium	Total	DNQ	0.04	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Cadmium	Dissolved	DNQ	0.038	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Cadmium	Total	=	0.16	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Chromium	Dissolved	=	0.5	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Chromium	Total	=	4.7	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/25/2011	Chromium VI	n/a	=	0.31	µg/L	EPA 218.6	0.0059	0.3	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Copper	Dissolved	=	3.2	µg/L	EPA 200.8	0.022	0.5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Copper	Total	=	8	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Iron	Dissolved	=	130	µg/L	EPA 200.8	0.6	20	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Iron	Total	=	2200	µg/L	EPA 200.8	0.6	20	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Lead	Dissolved	DNQ	0.031	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Lead	Total	=	1.5	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/3/2011	Mercury	Dissolved	DNQ	16	ng/L	EPA 245.1	3.9	50	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/3/2011	Mercury	Total	DNQ	21	ng/L	EPA 245.1	3.9	50	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Nickel	Dissolved	=	2.6	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Nickel	Total	=	6.3	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Selenium	Dissolved	=	1.6	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Selenium	Total	=	2.1	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Silver	Dissolved	DNQ	0.023	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Silver	Total	DNQ	0.025	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Thallium	Total	DNQ	0.021	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Zinc	Dissolved	DNQ	3.9	µg/L	EPA 200.8	0.3	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Zinc	Total	=	22	µg/L	EPA 200.8	0.3	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Ammonia as N	n/a	DNQ	0.08	mg/L	EPA 350.1	0.048	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	2/18/2011	Nitrate + Nitrite as N	n/a	=	0.93	mg/L	EPA 353.2	0.01	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/7/2011	Phosphorus as P	Dissolved	=	0.13	mg/L	EPA 365.1	0.0014	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/7/2011	Phosphorus as P	Total	=	0.27	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/7/2011	TKN	n/a	=	1.4	mg/L	EPA 351.2	0.074	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/4/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/4/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/4/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Diethyl phthalate	n/a	DNQ	0.61	µg/L	EPA 625	0.23	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Dimethyl phthalate	n/a	=	4.7	µg/L	EPA 625	0.26	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/22/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/22/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/22/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/22/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	2/22/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00	3/1/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/7/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	2/22/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	2/22/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	2/22/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	2/22/2011	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Diazinon	n/a	=	0.017	µg/L	EPA 525.2	0.0052	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	2/22/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	2/22/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	2/22/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	2/22/2011	Glyphosate	n/a	=	18	µg/L	EPA 547	1.8	5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Malathion	n/a	=	0.014	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	2/22/2011	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	2/22/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/2/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	IL
MO-THO	2010/11-4	Wet	7/2011 8:04:00 A	3/4/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/3/2011	Chloride	n/a	=	220	mg/L	EPA 300.0	1	5	WKL	D
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/3/2011	Fluoride	n/a	=	0.45	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/2/2011	Perchlorate	n/a	<	1.3	µg/L	EPA 314.0	1.3	4	WKL	D
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	9/2011 8:10:00 A	E. Coli	n/a	=	135	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	1/2011 12:07:00 I	Fecal Coliform	n/a	=	240	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	9/2011 8:10:00 A	Total Coliform	n/a	=	2489	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/5/2011	Calcium	Total	=	100	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/5/2011	Magnesium	Total	=	92	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/6/2011	Alkalinity as CaCO3	n/a	=	330	mg/L	SM 2320 B	1.2	10	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/4/2011	BOD	n/a	DNQ	1.2	mg/L	SM 5210 B	0.1	2	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/2/2011	COD	n/a	<	1.8	mg/L	EPA 410.4	1.8	5	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/5/2011	Hardness as CaCO3	Total	=	630	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	4/29/2011	MBAS	n/a	DNQ	0.022	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/9/2011	Phenolics	n/a	=	0.02	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/4/2011	Specific Conductance	n/a	=	1500	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/4/2011	Total Dissolved Solids	n/a	=	1200	mg/L	SM 2540 C	4	10	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/6/2011	Total Organic Carbon	n/a	=	2.1	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/4/2011	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	4/29/2011	Turbidity	n/a	=	0.52	NTU	EPA 180.1	0.024	0.1	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/4/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/10/2011	Aluminum	Dissolved	DNQ	2	µg/L	EPA 200.8	0.19	5	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/10/2011	Aluminum	Total	=	17	µg/L	EPA 200.8	0.19	5	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/10/2011	Antimony	Dissolved	DNQ	0.16	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/10/2011	Antimony	Total	DNQ	0.16	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-THO	2010/11-5	Dry	8/2011 9:40:00 A	5/10/2011	Arsenic	Dissolved	=	2.6	µg/L	EPA 200.8	0.014	0.4	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Arsenic	Total	=	2.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Beryllium	Total	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Cadmium	Total	DNQ	0.04	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Chromium	Dissolved	=	0.42	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Chromium	Total	=	0.5	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/7/2011	Chromium VI	n/a	DNQ	0.38	µg/L	EPA 218.6	0.03	1.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Copper	Dissolved	=	1.6	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Copper	Total	=	1.7	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Iron	Dissolved	DNQ	3.2	µg/L	EPA 200.8	0.6	20	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Iron	Total	=	38	µg/L	EPA 200.8	0.6	20	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Lead	Dissolved	<	0.017	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Lead	Total	DNQ	0.02	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Mercury	Dissolved	DNQ	27	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Mercury	Total	DNQ	18	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Nickel	Dissolved	=	1.4	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Nickel	Total	=	1.4	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Selenium	Dissolved	=	2.5	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Selenium	Total	=	2.4	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Silver	Total	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Zinc	Dissolved	DNQ	1.8	µg/L	EPA 200.8	0.3	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Zinc	Total	DNQ	1.2	µg/L	EPA 200.8	0.3	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/9/2011	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	4/29/2011	Nitrate + Nitrite as N	n/a	=	1.1	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Phosphorus as P	Dissolved	=	0.021	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Phosphorus as P	Total	=	0.023	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/5/2011	TKN	n/a	=	0.11	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	EUM
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/11/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Diethyl phthalate	n/a	DNQ	0.86	µg/L	EPA 625	0.23	2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Dimethyl phthalate	n/a	=	17	µg/L	EPA 625	0.26	2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/11/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Phenol	n/a	DNQ	0.89	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/7/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/12/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/4/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/16/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/10/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00	5/6/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	4/29/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/12/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/4/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/4/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/10/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/16/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:40:00 A	5/6/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	3/2011 9:45:00 A	Conductivity	n/a	=	110.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	5/6/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	3/2011 9:45:00 A	DO	n/a	=	105.2	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	3/2011 9:45:00 A	DO	n/a	=	10.44	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	3/2011 9:45:00 A	pH	n/a	=	8.46	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	3/2011 9:45:00 A	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	3/2011 9:45:00 A	Specific Conductance	n/a	=	123.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	3/2011 9:45:00 A	Temperature	n/a	=	15.6	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	5/2/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	5/2/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	4/29/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-THO	2010/11-5	Dry	3/2011 9:45:00 A	4/29/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 P	7/2010 5:20:00 A	E. Coli	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 P	7/2010 11:25:00	Fecal Coliform	n/a	=	30000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 P	7/2010 5:20:00 A	Total Coliform	n/a	=	648800	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 P	6/2010 3:10:00 P	Conductivity	n/a	=	205.3	µmhos/cm	Field Meter	-88	1	Field Crew	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 A	10/19/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 A	6/2010 3:10:00 A	DO	n/a	=	90.1	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 A	6/2010 3:10:00 A	DO	n/a	=	8.75	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 A	6/2010 3:10:00 A	pH	n/a	=	7.39	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 A	6/2010 3:10:00 A	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 A	6/2010 3:10:00 A	Specific Conductance	n/a	=	244.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 A	6/2010 3:10:00 A	Temperature	n/a	=	16.6	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 A	10/12/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	X
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 A	10/12/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	X
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 A	10/11/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	X
MO-VEN	2010/11-1	Wet	6/2010 3:10:00 A	10/11/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	X
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	1/2010 11:57:00	Chloride	n/a	=	13	mg/L	EPA 300.0	0.2	1	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/11/2010	Fluoride	n/a	=	0.18	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/14/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Calcium	Total	=	43	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Magnesium	Total	=	9.3	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	9/2010 1:44:00	Alkalinity as CaCO3	n/a	=	88	mg/L	SM 2320 B	1.2	10	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	BOD	n/a	=	16	mg/L	SM 5210 B	0.1	2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/8/2010	COD	n/a	=	100	mg/L	EPA 410.4	1.8	5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Hardness as CaCO3	Total	=	140	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/8/2010	MBAS	n/a	=	0.16	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Phenolics	n/a	=	0.07	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Specific Conductance	n/a	=	300	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/11/2010	Total Dissolved Solids	n/a	=	190	mg/L	SM 2540 C	4	10	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	4/2010 11:37:00	Total Organic Carbon	n/a	=	15	mg/L	SM 5310 C	0.32	3	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	2/2010 2:20:00	Total Suspended Solids	n/a	=	240	mg/L	SM 2540 D	5	5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	7/2010 6:27:00	Turbidity	n/a	=	25	NTU	EPA 180.1	0.024	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	2/2010 2:20:00	Volatile Suspended Solids	n/a	=	75	mg/L	EPA 160.4	3.1	5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Aluminum	Dissolved	=	23	µg/L	EPA 200.8	0.19	5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Aluminum	Total	=	2000	µg/L	EPA 200.8	0.19	5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Antimony	Dissolved	=	0.82	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Antimony	Total	=	1.4	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Arsenic	Total	=	2.9	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Beryllium	Total	DNQ	0.092	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Cadmium	Dissolved	DNQ	0.036	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Cadmium	Total	=	0.38	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Chromium	Dissolved	=	0.56	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Chromium	Total	=	5.5	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	7/2010 10:30:00	Chromium VI	n/a	DNQ	0.2	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Copper	Dissolved	=	8.9	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Copper	Total	=	70	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Iron	Dissolved	=	83	µg/L	EPA 200.8	0.6	20	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Iron	Total	=	4100	µg/L	EPA 200.8	0.6	20	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Lead	Dissolved	=	0.93	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Lead	Total	=	14	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	Mercury	Dissolved	DNQ	38	ng/L	EPA 245.1	3.9	50	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	Mercury	Total	=	55	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Nickel	Dissolved	=	3.3	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Nickel	Total	=	8.4	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Selenium	Dissolved	=	0.83	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Selenium	Total	=	1.2	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Silver	Dissolved	DNQ	0.009	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Silver	Total	DNQ	0.086	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Thallium	Total	DNQ	0.044	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Zinc	Dissolved	=	27	µg/L	EPA 200.8	0.3	5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Zinc	Total	=	220	µg/L	EPA 200.8	0.3	5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/13/2010	Ammonia as N	n/a	=	0.52	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	7/2010 4:23:00	Nitrate + Nitrite as N	n/a	=	0.64	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/20/2010	Phosphorus as P	Dissolved	=	0.26	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/20/2010	Phosphorus as P	Total	=	0.56	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	TKN	n/a	=	3.3	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	1,2,4-Trichlorobenzene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	1,2-Dichlorobenzene	n/a	<	3	µg/L	EPA 625	3	20	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	1,2-Diphenylhydrazine	n/a	<	3.5	µg/L	EPA 625	3.5	10	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	1,3-Dichlorobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	1,4-Dichlorobenzene	n/a	<	3.2	µg/L	EPA 625	3.2	10	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	2,4-Dinitrotoluene	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	2,6-Dinitrotoluene	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	2-Chloronaphthalene	n/a	<	2.6	µg/L	EPA 625	2.6	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	3,3'-Dichlorobenzidine	n/a	<	3	µg/L	EPA 625	3	50	WKL	D,GB
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	4-Bromophenyl phenyl ether	n/a	<	2.3	µg/L	EPA 625	2.3	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	4-Chlorophenyl phenyl ether	n/a	<	2.4	µg/L	EPA 625	2.4	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Benzidine	n/a	<	7	µg/L	EPA 625	7	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Bis(2-chloroethoxy)methane	n/a	<	4	µg/L	EPA 625	4	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Bis(2-chloroethyl)ether	n/a	<	4.6	µg/L	EPA 625	4.6	10	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Bis(2-chloroisopropyl)ether	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Butyl benzyl phthalate	n/a	<	10	µg/L	EPA 625	10	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Chrysene	n/a	DNQ	0.1	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Diethyl phthalate	n/a	<	2.3	µg/L	EPA 625	2.3	20	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Dimethyl phthalate	n/a	<	2.6	µg/L	EPA 625	2.6	20	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Di-n-butylphthalate	n/a	<	5.3	µg/L	EPA 625	5.3	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Di-n-octylphthalate	n/a	<	2.8	µg/L	EPA 625	2.8	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Hexachlorobenzene	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Hexachlorobutadiene	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Hexachlorocyclopentadiene	n/a	<	50	µg/L	EPA 625	50	100	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Hexachloroethane	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Isophorone	n/a	<	3.3	µg/L	EPA 625	3.3	10	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	Nitrobenzene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	N-Nitrosodimethylamine	n/a	<	3.6	µg/L	EPA 625	3.6	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	N-Nitrosodi-N-propylamine	n/a	<	4.1	µg/L	EPA 625	4.1	50	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/19/2010	N-Nitrosodiphenylamine	n/a	<	2.3	µg/L	EPA 625	2.3	10	WKL	D
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/22/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/21/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	EUM
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	4,4'-DDE	n/a	DNQ	0.011	µg/L	EPA 608	0.0025	0.05	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	4,4'-DDT	n/a	=	0.011	µg/L	EPA 608	0.0031	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	DCPA (Dacthal)	n/a	DNQ	0.085	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/8/2010	Glyphosate	n/a	=	31	µg/L	EPA 547	1.8	5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/12/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/15/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2010/11-1	Wet	6/2010 1:25:00	10/26/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	1/2010 3:30:00	E. Coli	n/a	=	17329	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	/2010 10:10:00	Fecal Coliform	n/a	=	24000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	1/2010 3:30:00	Total Coliform	n/a	=	248100	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	0/2010 3:27:00	Conductivity	n/a	=	13.2	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	11/9/2010	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	0/2010 3:27:00	DO	n/a	=	97.6	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	0/2010 3:27:00	DO	n/a	=	10.17	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	0/2010 3:27:00	pH	n/a	=	6.78	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	0/2010 3:27:00	Salinity	n/a	<	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	0/2010 3:27:00	Specific Conductance	n/a	=	18.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	0/2010 3:27:00	Temperature	n/a	=	13.9	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	11/10/2010	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	11/10/2010	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	11/3/2010	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 3:27:00	11/3/2010	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	Chloride	n/a	=	7.6	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	Fluoride	n/a	=	0.1	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/9/2010	Perchlorate	n/a	<	0.82	µg/L	EPA 314.0	0.82	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/5/2010	Calcium	Total	=	15	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/5/2010	Magnesium	Total	=	5.1	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/11/2010	Alkalinity as CaCO3	n/a	=	26	mg/L	SM 2320 B	1.2	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/4/2010	BOD	n/a	=	14	mg/L	SM 5210 B	0.1	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/3/2010	COD	n/a	=	170	mg/L	EPA 410.4	1.8	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/5/2010	Hardness as CaCO3	Total	=	58	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	0/2010 11:45:00	MBAS	n/a	=	0.53	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Phenolics	n/a	=	0.067	mg/L	EPA 420.4	0.0016	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/4/2010	Specific Conductance	n/a	=	150	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/5/2010	Total Dissolved Solids	n/a	=	110	mg/L	SM 2540 C	4	10	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Total Organic Carbon	n/a	=	13	mg/L	SM 5310 C	0.32	3	WKL	D
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/5/2010	Total Suspended Solids	n/a	=	230	mg/L	SM 2540 D	5	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	0/2010 8:26:00	Turbidity	n/a	=	100	NTU	EPA 180.1	0.024	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/5/2010	Volatile Suspended Solids	n/a	=	53	mg/L	EPA 160.4	3.1	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Aluminum	Dissolved	=	23	µg/L	EPA 200.8	0.19	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Aluminum	Total	=	4300	µg/L	EPA 200.8	19	500	WKL	D
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Antimony	Dissolved	=	0.6	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Antimony	Total	=	1.8	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Arsenic	Dissolved	=	0.92	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Arsenic	Total	=	3	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Beryllium	Total	=	0.2	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Cadmium	Dissolved	DNQ	0.052	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Cadmium	Total	=	0.68	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Chromium	Dissolved	=	0.48	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Chromium	Total	=	10	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/5/2010	Chromium VI	n/a	DNQ	0.25	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Copper	Dissolved	=	6.9	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Copper	Total	=	56	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Iron	Dissolved	=	73	µg/L	EPA 200.8	0.6	20	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Iron	Total	=	8000	µg/L	EPA 200.8	0.6	20	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Lead	Dissolved	=	0.77	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Lead	Total	=	25	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/11/2010	Mercury	Dissolved	DNQ	26	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/11/2010	Mercury	Total	=	61	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Nickel	Dissolved	=	2.1	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Nickel	Total	=	14	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Selenium	Dissolved	DNQ	0.34	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Selenium	Total	=	0.65	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Silver	Total	=	0.2	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Thallium	Total	DNQ	0.077	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Zinc	Dissolved	=	41	µg/L	EPA 200.8	0.3	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/10/2010	Zinc	Total	=	380	µg/L	EPA 200.8	0.3	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Ammonia as N	n/a	=	0.46	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	30/2010 9:02:00	Nitrate + Nitrite as N	n/a	=	0.78	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/18/2010	Phosphorus as P	Dissolved	=	0.24	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/18/2010	Phosphorus as P	Total	=	1	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/9/2010	TKN	n/a	=	3.4	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	GB
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/17/2010	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Butyl benzyl phthalate	n/a	DNQ	1.1	µg/L	EPA 625	1	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Di-n-butylphthalate	n/a	DNQ	0.67	µg/L	EPA 625	0.53	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/12/2010	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Phenanthrene	n/a	DNQ	0.14	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/16/2010	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/15/2010	4,4'-DDE	n/a	=	0.051	µg/L	EPA 608	0.0025	0.05	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/15/2010	4,4'-DDT	n/a	=	0.04	µg/L	EPA 608	0.0031	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	alpha-Chlordane	n/a	DNQ	0.0045	µg/L	EPA 608	0.0041	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Chlorpyrifos	n/a	=	0.14	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/4/2010	Glyphosate	n/a	=	12	µg/L	EPA 547	1.8	5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Malathion	n/a	=	0.37	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/6/2010	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/14/2010	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	12/1/2010	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2010/11-2	Wet	0/2010 12:30:00	11/29/2010	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	7/2011 5:45:00	E. Coli	n/a	=	1616	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	0/2011 9:12:00	Fecal Coliform	n/a	=	1100	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	7/2011 5:45:00	Total Coliform	n/a	=	129970	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	6/2011 4:30:00	Conductivity	n/a	=	86.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	3/1/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	6/2011 4:30:00	DO	n/a	=	9.39	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	6/2011 4:30:00	DO	n/a	=	89.9	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	6/2011 4:30:00	pH	n/a	=	7.2	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	6/2011 4:30:00	Salinity	n/a	=	0.0000001	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	6/2011 4:30:00	Specific Conductance	n/a	=	109.2	µmhos/cm	Field Meter	-88	1	Field Crew	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	6/2011 4:30:00	Temperature	n/a	=	13.8	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	2/24/2011	Oil and Grease	n/a	<	2	mg/L	EPA 1664A	2	5	WKL	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	2/24/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	2/18/2011	2-Chloroethyl vinyl ether	n/a	<	0.25	µg/L	EPA 524.2	0.25	1	WKL	
MO-VEN	2010/11-4	Wet	6/2011 4:30:00	2/18/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.1	µg/L	EPA 524.2	1.1	3	WKL	
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Chloride	n/a	=	7.3	mg/L	EPA 300.0	0.1	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Fluoride	n/a	=	0.13	mg/L	EPA 300.0	0.02	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/4/2011	Perchlorate	n/a	<	0.64	µg/L	EPA 314.0	0.64	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Calcium	Total	=	14	mg/L	EPA 200.7	0.016	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Magnesium	Total	=	4.5	mg/L	EPA 200.7	0.012	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	Alkalinity as CaCO3	n/a	=	33	mg/L	SM 2320 B	1.2	10	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	BOD	n/a	=	14	mg/L	SM 5210 B	0.1	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/18/2011	COD	n/a	=	48	mg/L	EPA 410.4	1.8	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Hardness as CaCO3	Total	=	53	mg/L	EPA 200.7	0.089	0.66	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/18/2011	MBAS	n/a	=	0.22	mg/L	SM 5540 C	0.019	0.05	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/25/2011	Phenolics	n/a	=	0.053	mg/L	EPA 420.4	0.0016	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/24/2011	Specific Conductance	n/a	=	230	µmhos/cm	SM 2510 B	0.23	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/18/2011	Total Dissolved Solids	n/a	=	140	mg/L	SM 2540 C	4	10	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Total Organic Carbon	n/a	=	8.7	mg/L	SM 5310 C	0.045	1.5	WKL	D
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/18/2011	Total Suspended Solids	n/a	=	89	mg/L	SM 2540 D	5	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/18/2011	Turbidity	n/a	=	12	NTU	EPA 180.1	0.024	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/18/2011	Volatile Suspended Solids	n/a	=	30	mg/L	EPA 160.4	3.1	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Aluminum	Dissolved	=	15	µg/L	EPA 200.8	0.19	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Aluminum	Total	=	670	µg/L	EPA 200.8	0.19	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Antimony	Dissolved	=	0.61	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Antimony	Total	=	0.92	µg/L	EPA 200.8	0.008	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Arsenic	Dissolved	=	0.89	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Arsenic	Total	=	1.3	µg/L	EPA 200.8	0.014	0.4	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/3/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/3/2011	Beryllium	Total	DNQ	0.029	µg/L	EPA 200.8	0.022	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Cadmium	Dissolved	DNQ	0.059	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Cadmium	Total	=	0.14	µg/L	EPA 200.8	0.013	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Chromium	Dissolved	=	0.48	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Chromium	Total	=	1.9	µg/L	EPA 200.8	0.012	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/25/2011	Chromium VI	n/a	=	0.31	µg/L	EPA 218.6	0.0059	0.3	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Copper	Dissolved	=	7.1	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Copper	Total	=	13	µg/L	EPA 200.8	0.022	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Iron	Dissolved	=	26	µg/L	EPA 200.8	0.6	20	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Iron	Total	=	1100	µg/L	EPA 200.8	0.6	20	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Lead	Dissolved	=	0.23	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Lead	Total	=	4.1	µg/L	EPA 200.8	0.017	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/3/2011	Mercury	Dissolved	DNQ	22	ng/L	EPA 245.1	3.9	50	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/3/2011	Mercury	Total	DNQ	30	ng/L	EPA 245.1	3.9	50	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Nickel	Dissolved	=	1.4	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Nickel	Total	=	2.8	µg/L	EPA 200.8	0.011	0.8	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Selenium	Dissolved	=	0.41	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Selenium	Total	=	0.53	µg/L	EPA 200.8	0.017	0.4	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Silver	Dissolved	<	0.008	µg/L	EPA 200.8	0.008	0.2	WKL	X

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2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Silver	Total	DNQ	0.02	µg/L	EPA 200.8	0.008	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Zinc	Dissolved	=	42	µg/L	EPA 200.8	0.3	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Zinc	Total	=	84	µg/L	EPA 200.8	0.3	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/4/2011	Ammonia as N	n/a	=	0.3	mg/L	EPA 350.1	0.048	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/18/2011	Nitrate + Nitrite as N	n/a	=	0.62	mg/L	EPA 353.2	0.01	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Phosphorus as P	Dissolved	=	0.16	mg/L	EPA 365.1	0.0014	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Phosphorus as P	Total	=	0.28	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/3/2011	TKN	n/a	=	1.2	mg/L	EPA 351.2	0.074	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Benzo(a)pyrene	n/a	<	0.073	µg/L	EPA 525.2	0.073	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.23	µg/L	EPA 525.2	0.23	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.3	µg/L	EPA 525.2	1.1	3	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Diethyl phthalate	n/a	DNQ	0.23	µg/L	EPA 625	0.23	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Di-n-butylphthalate	n/a	DNQ	0.57	µg/L	EPA 625	0.53	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/9/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	2,4,5-T	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	2,4,5-TP	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	2,4-D	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	2,4-DB	n/a	<	0.42	µg/L	EPA 515.3	0.42	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	3,5-Dichlorobenzoic acid	n/a	<	0.08	µg/L	EPA 515.3	0.08	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	4,4'-DDE	n/a	DNQ	0.011	µg/L	EPA 608	0.0025	0.05	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	4,4'-DDT	n/a	DNQ	0.0099	µg/L	EPA 608	0.0031	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	Acifluorfen	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Alachlor	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Atrazine	n/a	<	0.047	µg/L	EPA 525.2	0.047	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	Bentazon	n/a	<	0.23	µg/L	EPA 515.3	0.23	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Bromacil	n/a	<	0.9	µg/L	EPA 525.2	0.9	1	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Butachlor	n/a	<	0.1	µg/L	EPA 525.2	0.1	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Cyanazine	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	EUM
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	Dalapon	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.4	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	DCPA (Dacthal)	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	Dicamba	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.6	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	Dichlorprop	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.3	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	Dinoseb	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.4	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Diphenamid	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	EPTC	n/a	<	0.23	µg/L	EPA 525.2	0.23	1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/22/2011	Glyphosate	n/a	=	31	µg/L	EPA 547	1.8	5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Malathion	n/a	=	0.039	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Metolachlor	n/a	<	0.056	µg/L	EPA 525.2	0.056	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Metribuzin	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Molinate	n/a	<	0.051	µg/L	EPA 525.2	0.051	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	Pentachlorophenol	n/a	<	0.02	µg/L	EPA 515.3	0.02	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	2/23/2011	Picloram	n/a	<	0.34	µg/L	EPA 515.3	0.34	0.6	WKL	X

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Prometon	n/a	<	0.16	µg/L	EPA 525.2	0.16	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Prometryn	n/a	<	0.074	µg/L	EPA 525.2	0.074	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Simazine	n/a	<	0.083	µg/L	EPA 525.2	0.083	0.1	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Thiobencarb	n/a	<	0.11	µg/L	EPA 525.2	0.11	0.2	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/1/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	X
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/2/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	IL
MO-VEN	2010/11-4	Wet	/2011 10:45:00	3/7/2011	Trithion	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	X
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Chloride	n/a	=	270	mg/L	EPA 300.0	1	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Fluoride	n/a	=	0.75	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Perchlorate	n/a	<	13	µg/L	EPA 314.0	13	40	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/26/2011	Calcium	Total	=	250	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/26/2011	Magnesium	Total	=	220	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	Alkalinity as CaCO3	n/a	=	230	mg/L	SM 2320 B	1.2	10	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/26/2011	BOD	n/a	=	7.2	mg/L	SM 5210 B	0.1	2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/20/2011	COD	n/a	=	79	mg/L	EPA 410.4	1.8	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/26/2011	Hardness as CaCO3	Total	=	1500	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/20/2011	MBAS	n/a	=	0.17	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/2/2011	Phenolics	n/a	=	0.049	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/26/2011	Specific Conductance	n/a	=	5800	µmhos/cm	SM 2510 B	1.2	10	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Total Dissolved Solids	n/a	=	4800	mg/L	SM 2540 C	4	10	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	Total Organic Carbon	n/a	=	14	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/21/2011	Total Suspended Solids	n/a	=	11	mg/L	SM 2540 D	5	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/20/2011	Turbidity	n/a	=	3.5	NTU	EPA 180.1	0.024	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/21/2011	Volatile Suspended Solids	n/a	=	8	mg/L	EPA 160.4	3.1	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Aluminum	Dissolved	DNQ	1.8	µg/L	EPA 200.8	0.19	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Aluminum	Total	=	9.1	µg/L	EPA 200.8	0.19	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Antimony	Dissolved	=	0.79	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Antimony	Total	=	0.78	µg/L	EPA 200.8	0.008	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Arsenic	Dissolved	=	5.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Arsenic	Total	=	5.6	µg/L	EPA 200.8	0.014	0.4	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Beryllium	Dissolved	<	0.022	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Beryllium	Total	DNQ	0.027	µg/L	EPA 200.8	0.022	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Cadmium	Dissolved	=	0.1	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Cadmium	Total	=	0.12	µg/L	EPA 200.8	0.013	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Chromium	Dissolved	=	0.26	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Chromium	Total	=	0.3	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/21/2011	Chromium VI	n/a	DNQ	0.067	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Copper	Dissolved	=	41	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Copper	Total	=	44	µg/L	EPA 200.8	0.022	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Iron	Dissolved	=	66	µg/L	EPA 200.8	0.6	20	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Iron	Total	=	110	µg/L	EPA 200.8	0.6	20	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Lead	Dissolved	=	0.42	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Lead	Total	=	0.65	µg/L	EPA 200.8	0.017	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Mercury	Dissolved	DNQ	36	ng/L	EPA 245.1	3.9	50	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Mercury	Total	DNQ	38	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Nickel	Dissolved	=	7.9	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Nickel	Total	=	7.4	µg/L	EPA 200.8	0.011	0.8	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Selenium	Dissolved	=	11	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Selenium	Total	=	11	µg/L	EPA 200.8	0.017	0.4	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Silver	Dissolved	DNQ	0.018	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Silver	Total	DNQ	0.018	µg/L	EPA 200.8	0.008	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Thallium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Thallium	Total	<	0.02	µg/L	EPA 200.8	0.02	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Zinc	Dissolved	=	7.9	µg/L	EPA 200.8	0.3	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Zinc	Total	=	11	µg/L	EPA 200.8	0.3	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/2/2011	Ammonia as N	n/a	=	0.13	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/20/2011	Nitrate + Nitrite as N	n/a	=	0.26	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/20/2011	Nitrate as N	n/a	=	0.17	mg/L	EPA 353.2	0.041	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Phosphorus as P	Dissolved	=	0.029	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Phosphorus as P	Total	=	0.064	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/4/2011	TKN	n/a	=	2.6	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	1,2,4-Trichlorobenzene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	1,2-Dichlorobenzene	n/a	<	0.3	µg/L	EPA 625	0.3	2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	1,2-Diphenylhydrazine	n/a	<	0.35	µg/L	EPA 625	0.35	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	1,3-Dichlorobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	1,4-Dichlorobenzene	n/a	<	0.32	µg/L	EPA 625	0.32	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	2,4,6-Trichlorophenol	n/a	DNQ	0.38	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	2,4-Dinitrotoluene	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	2,6-Dinitrotoluene	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	2-Chloronaphthalene	n/a	<	0.26	µg/L	EPA 625	0.26	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	3,3'-Dichlorobenzidine	n/a	<	0.3	µg/L	EPA 625	0.3	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	4-Bromophenyl phenyl ether	n/a	<	0.23	µg/L	EPA 625	0.23	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	4-Chlorophenyl phenyl ether	n/a	<	0.24	µg/L	EPA 625	0.24	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Benzidine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	

Appendix G
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Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Bis(2-chloroethoxy)methane	n/a	<	0.4	µg/L	EPA 625	0.4	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Bis(2-chloroethyl)ether	n/a	<	0.46	µg/L	EPA 625	0.46	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Butyl benzyl phthalate	n/a	<	1	µg/L	EPA 625	1	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Diethyl phthalate	n/a	<	0.23	µg/L	EPA 625	0.23	2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Dimethyl phthalate	n/a	<	0.26	µg/L	EPA 625	0.26	2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Di-n-butylphthalate	n/a	<	0.53	µg/L	EPA 625	0.53	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Di-n-octylphthalate	n/a	<	0.28	µg/L	EPA 625	0.28	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Hexachlorobenzene	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Hexachlorobutadiene	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Hexachlorocyclopentadiene	n/a	<	5	µg/L	EPA 625	5	10	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Hexachloroethane	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Isophorone	n/a	<	0.33	µg/L	EPA 625	0.33	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	Nitrobenzene	n/a	<	0.37	µg/L	EPA 625	0.37	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	N-Nitrosodimethylamine	n/a	<	0.36	µg/L	EPA 625	0.36	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	N-Nitrosodi-N-propylamine	n/a	<	0.41	µg/L	EPA 625	0.41	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/27/2011	N-Nitrosodiphenylamine	n/a	<	0.23	µg/L	EPA 625	0.23	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Phenol	n/a	DNQ	0.76	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/25/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	2,4-D	n/a	=	2.7	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Azinphos methyl	n/a	=	0.022	µg/L	EPA 525.2	0.0055	0.01	WKL	GB, IL
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/21/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	

Appendix G
2010/11 Laboratory Environmental Analysis Results

Site ID	Event ID	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/28/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	GB, IL
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/29/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	5/3/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:00:00	4/22/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	/2011 10:00:00	E. Coli	n/a	<	10	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	3/2011 1:26:00	Fecal Coliform	n/a	=	2	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	/2011 10:00:00	Total Coliform	n/a	=	228200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	9/2011 2:05:00	Conductivity	n/a	=	5350	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	4/27/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	9/2011 2:05:00	DO	n/a	=	10.36	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	9/2011 2:05:00	DO	n/a	=	135.3	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	9/2011 2:05:00	pH	n/a	=	9.89	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	9/2011 2:05:00	Salinity	n/a	=	0.0000027	mg/L	Field Meter	-88	0.0000001	Field Crew	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	9/2011 2:05:00	Specific Conductance	n/a	=	5090	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	9/2011 2:05:00	Temperature	n/a	=	27.8	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	4/22/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	4/22/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	4/20/2011	2-Chloroethyl vinyl ether	n/a	<	0.35	µg/L	EPA 524.2	0.35	1	WKL	
MO-VEN	2010/11-5	Dry	9/2011 2:05:00	4/20/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	

Appendix H. RWQCB Permission of Toxicity Species Substitution

California Regional Water Quality Control Board

Los Angeles Region

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Linda S. Adams
Agency Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger
Governor

October 28, 2009

Ms. Norma Camacho, Director
Ventura County Watershed Protection District
800 South Victoria Ave., L#1600
Ventura, CA 93009-1600

Certified Mail
Return Receipt Requested
Claim No. 7009 0820 0001 6811 7509

SUBJECT: TOXICITY TEST SPECIES SUBSTITUTION, VENTURA COUNTY MUNICIPAL SEPARATE STORM SEWER SYSTEM DISCHARGE (MS4) PERMIT (BOARD ORDER No. 09-0057; NPDES No. CAS004002)

Dear Ms. Camacho:

On October 14, 2009, the Regional Board staff received a request from the Ventura County Watershed Protection District (County) to substitute topsmelt, *Atherinops affinis*, with the inland silverside, *Menidia beryllina*, due to the unavailability of topsmelt from the supplier. After consultation with US EPA staff, Regional Board staff denied the request. On October 15, 2009, the Regional Board received an e-mail from the County, titled "Notification of toxicity exception - (species unavailable) Ventura County MS4 NPDES Permit Order No. 09-0057 (Monitoring Program)". The County's e-mail communication was submitted pursuant to requirements in subparts D.5 and D.8(b) of the Ventura County MS4 Permit's Monitoring Program (Monitoring Program), which requires an explanation of the circumstance with documentation when toxicity tests cannot be performed to comply with the requirements of this permit, and written authorization from the Regional Board Executive Officer to substitute test species.

In order to evaluate the appropriateness of substituting topsmelt, *Atherinops affinis*, with the inland silverside, *Menidia beryllina*, in toxicity testing at mass emissions stations in the future, the Regional Board requires the County to conduct comparative static renewal toxicity tests on both species as follows. During the next storm event of this permit year (2009-10) and the first storm event of next permit year (2010-11), the County shall conduct toxicity tests on both topsmelt, *Atherinops affinis*, and the inland silverside, *Menidia beryllina*, along with giant kelp, *Macrocystis pyrifera*, and the purple sea urchin, *Strongylocentrotus purpuratus*, pursuant to subpart D.8(a) of the Monitoring Program. The County shall submit the results of the comparative toxicity tests as part of its reporting requirements.

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WATERSHED PROTECTION DIST.

In the event that topsmelt, *Atherinops affinis*, is unavailable for testing during future sampling events conducted under the Monitoring Program, the County shall follow the protocol set forth in subpart D.5 of the Monitoring Program. The County shall notify the Regional Board by phone and e-mail as soon as possible if a test species is unavailable. Notification shall be sent directly to me as well as Tracy Woods, Stormwater Permitting Unit, with a copy to Renee Purdy, Chief, Regional Programs Section. The County shall submit to the Regional Board documentation of species unavailability from both the County's contract lab and the contract lab's supplier at least 48 hours prior to the planned sampling event to provide adequate time for my staff to evaluate any request for species substitution. Any approval or denial of a request for species substitution must be authorized pursuant to subpart D.8(b) of the Monitoring Program.

If you have any questions, please contact me at (213) 576-6605, or Renee Purdy at (213) 576-6783.

Sincerely,

Tracy J. Egoscue,
Executive Officer

cc: Mr. Bruce Fujimoto, Division of Water Quality, State Water Resources Control Board
Mr. Gerhardt Hubner, Ventura County Watershed Protection District
Mr. Arne Anselm, Ventura County Watershed Protection District

Appendix I. Aquatic Toxicity Testing Lab Results

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-OXN
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.039

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	17-5650-0091	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:49	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	15-9652-1254	Code:	VCF1010039af	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	25h (12.5 °C)	Station:	MO-OXN		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
13-6685-6634	7d Survival Rate	100	>100	N/A	15.98%	1	Dunnett's Multiple Comparison Test
14-6107-2180	Mean Dry Biomass-mg	100	>100	N/A	23.36%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
10-8498-3825	7d Survival Rate	EC5	96.67	N/A	N/A	1.034	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
13-5780-5115	Mean Dry Biomass-mg	IC5	2.507	0.7055	17.72	39.89	Linear Interpolation (ICPIN)
		IC10	5.014	1.411	116.4	19.95	
		IC15	10.93	0.0728	N/A	9.152	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
10-8498-3825	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
13-6685-6634	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
13-5780-5115	Mean Dry Biomass-mg	Control Resp	0.4265	0.25 - NL	Yes	Result Within Limits
14-6107-2180	Mean Dry Biomass-mg	Control Resp	0.4265	0.25 - NL	Yes	Result Within Limits
14-6107-2180	Mean Dry Biomass-mg	PMSD	0.2336	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	0.0%
6.25		4	0.9167	0.8544	0.9789	0.6667	1	0.03043	0.1667	18.18%	5.17%
12.5		4	0.9333	0.8981	0.9685	0.8	1	0.01721	0.09428	10.1%	3.45%
25		4	0.9167	0.8793	0.954	0.8	1	0.01826	0.1	10.91%	5.17%
50		4	1	1	1	1	1	0	0	0.0%	-3.45%
100		4	0.9167	0.8928	0.9405	0.8667	1	0.01165	0.06383	6.96%	5.17%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.4265	0.4094	0.4436	0.3633	0.4733	0.008378	0.04589	10.76%	0.0%
6.25		4	0.3733	0.3515	0.3951	0.2933	0.4327	0.01066	0.0584	15.64%	12.47%
12.5		4	0.3532	0.3415	0.3649	0.328	0.3947	0.005715	0.0313	8.86%	17.19%
25		4	0.3322	0.317	0.3474	0.3047	0.3927	0.007438	0.04074	12.26%	22.12%
50		4	0.3913	0.3503	0.4323	0.3187	0.5547	0.02005	0.1098	28.06%	8.25%
100		4	0.3425	0.3356	0.3494	0.324	0.3613	0.003391	0.01857	5.42%	19.7%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9333	1	0.9333	1
6.25		0.6667	1	1	1
12.5		1	0.9333	0.8	1
25		1	0.8667	1	0.8
50		1	1	1	1
100		0.9333	0.8667	1	0.8667

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3633	0.4347	0.4347	0.4733
6.25		0.2933	0.4327	0.3907	0.3767
12.5		0.36	0.3947	0.328	0.33
25		0.3927	0.3187	0.3127	0.3047
50		0.3387	0.3533	0.5547	0.3187
100		0.3553	0.3293	0.3613	0.324

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	14-6107-2180	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 11:04	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	17-5650-0091	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:49	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	15-9652-1254	Code:	VCF1010039af	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	25h (12.5 °C)	Station:	MO-OXN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	23.36%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	1.284	2.407	0.09963	0.3039	Non-Significant Effect
		12.5	1.772	2.407	0.09963	0.1518	Non-Significant Effect
		25	2.279	2.407	0.09963	0.0635	Non-Significant Effect
		50	0.8496	2.407	0.09963	0.4895	Non-Significant Effect
		100	2.029	2.407	0.09963	0.0991	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.4265	0.25 - NL	Yes	Result Within Limits
PMSD	0.2336	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.154	2.802	0.0078	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.0245171	0.004903421	5	1.431	0.2608	Non-Significant Effect
Error	0.06167777	0.003426543	18			
Total	0.08619487	0.008329963	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	9.311	15.09	0.0973	Equal Variances
Variances	Mod Levene Equality of Variance	0.481	4.248	0.7858	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9166		0.0491	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1497	0.2056	0.1753	Normal Distribution
Distribution	D'Agostino Skewness	2.438	2.576	0.0148	Normal Distribution
Distribution	D'Agostino Kurtosis	2.342	2.576	0.0192	Normal Distribution
Distribution	D'Agostino Omnibus	11.43	9.21	0.0033	Non-normal Distribution

Mean Dry Biomass-mg Summary

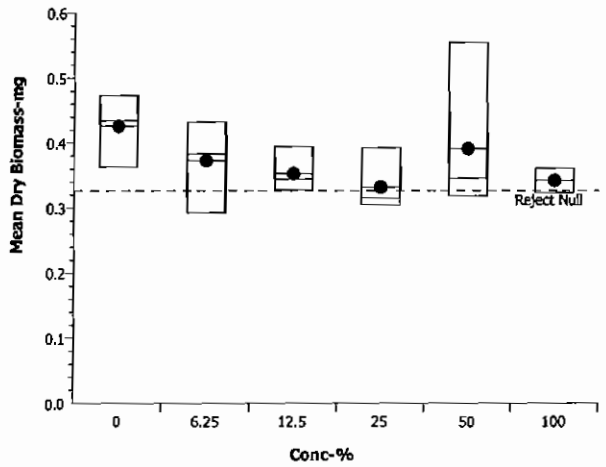
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.4265	0.409	0.444	0.3633	0.4733	0.008521	0.04589	10.76%	0.0%
6.25		4	0.3733	0.3511	0.3955	0.2933	0.4327	0.01084	0.0584	15.64%	12.47%
12.5		4	0.3532	0.3413	0.3651	0.328	0.3947	0.005812	0.0313	8.86%	17.19%
25		4	0.3322	0.3167	0.3477	0.3047	0.3927	0.007565	0.04074	12.26%	22.12%
50		4	0.3913	0.3496	0.4331	0.3187	0.5547	0.02039	0.1098	28.06%	8.25%
100		4	0.3425	0.3354	0.3496	0.324	0.3613	0.003449	0.01857	5.42%	19.7%

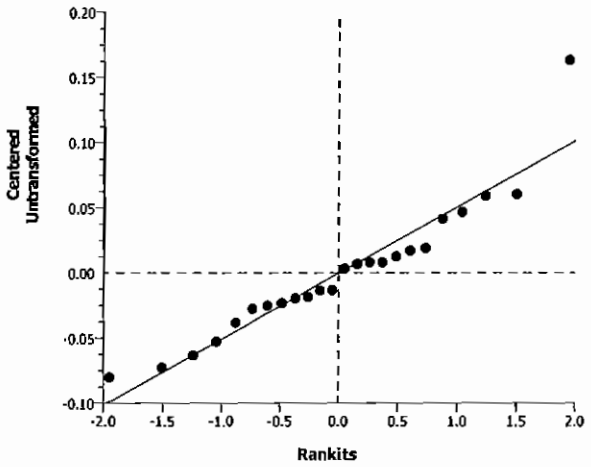
Analysis ID:	14-6107-2180	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 11:04	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3633	0.4347	0.4347	0.4733
6.25		0.2933	0.4327	0.3907	0.3767
12.5		0.36	0.3947	0.328	0.33
25		0.3927	0.3187	0.3127	0.3047
50		0.3387	0.3533	0.5547	0.3187
100		0.3553	0.3293	0.3613	0.324

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-6685-6634	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 11:02	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	17-5650-0091	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:49	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	15-9652-1254	**Code:**	VCF1010039af	**Client:**	VCWPD
Sample Date:	06 Oct-10 14:15	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	**Source:**	Bioassay Report		
Sample Age:	25h (12.5 °C)	**Station:**	MO-OXN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	15.98%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	0.5297	2.407	0.2529	0.6346	Non-Significant Effect
		12.5	0.4818	2.407	0.2529	0.6554	Non-Significant Effect
		25	0.7497	2.407	0.2529	0.5353	Non-Significant Effect
		50	-0.6267	2.407	0.2529	0.9551	Non-Significant Effect
		100	0.8493	2.407	0.2529	0.4897	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.773	2.802	0.0571	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.06769872	0.01353974	5	0.6131	0.6913	Non-Significant Effect
Error	0.3975039	0.02208355	18			
Total	0.4652026	0.03562329	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	0.8476	4.248	0.5340	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9052		0.0278	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1455	0.2056	0.2073	Normal Distribution
Distribution	D'Agostino Skewness	2.133	2.576	0.0329	Normal Distribution
Distribution	D'Agostino Kurtosis	1.245	2.576	0.2131	Normal Distribution
Distribution	D'Agostino Omnibus	6.101	9.21	0.0473	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	13-6685-6634	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 11:02	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	0.0%
6.25		4	0.9167	0.8533	0.9801	0.6667	1	0.03095	0.1667	18.18%	5.17%
12.5		4	0.9333	0.8975	0.9692	0.8	1	0.01751	0.09428	10.1%	3.45%
25		4	0.9167	0.8786	0.9547	0.8	1	0.01857	0.1	10.91%	5.17%
50		4	1	1	1	1	1	0	0	0.0%	-3.45%
100		4	0.9167	0.8924	0.9409	0.8667	1	0.01185	0.06383	6.96%	5.17%

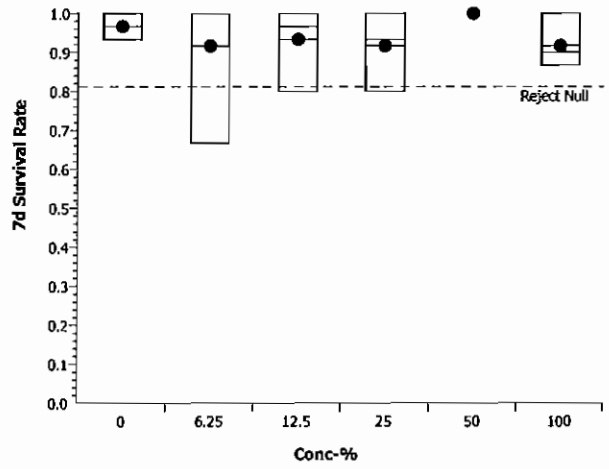
Angular (Corrected) Transformed Summary

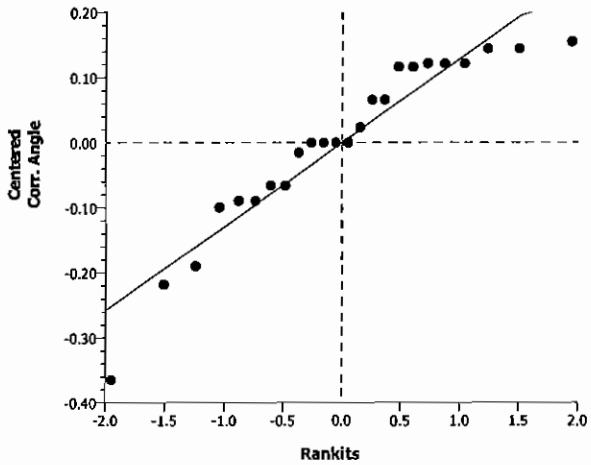
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	0.0%
6.25		4	1.32	1.227	1.412	0.9553	1.441	0.04513	0.243	18.41%	4.05%
12.5		4	1.325	1.265	1.385	1.107	1.441	0.02931	0.1579	11.92%	3.68%
25		4	1.297	1.232	1.362	1.107	1.441	0.03175	0.171	13.19%	5.73%
50		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-4.79%
100		4	1.286	1.242	1.33	1.197	1.441	0.02158	0.1162	9.04%	6.49%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9333	1	0.9333	1
6.25		0.6667	1	1	1
12.5		1	0.9333	0.8	1
25		1	0.8667	1	0.8
50		1	1	1	1
100		0.9333	0.8667	1	0.8667

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	13-5780-5115	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 11:03	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	17-5650-0091	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:49	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	15-9652-1254	Code:	VCF1010039af	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	25h (12.5 °C)	Station:	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.4265	0.25 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	2.507	0.7055	17.72	39.89	5.644	141.7
IC10	5.014	1.411	116.4	19.95	0.8588	70.87
IC15	10.93	0.0728	N/A	9.152	N/A	1374
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.4265	0.3633	0.4733	0.008378	0.04589	10.76%	0.0%
6.25		4	0.3733	0.2933	0.4327	0.01066	0.0584	15.64%	12.47%
12.5		4	0.3532	0.328	0.3947	0.005714	0.0313	8.86%	17.19%
25		4	0.3322	0.3047	0.3927	0.007438	0.04074	12.26%	22.12%
50		4	0.3913	0.3187	0.5547	0.02005	0.1098	28.06%	8.25%
100		4	0.3425	0.324	0.3613	0.003391	0.01857	5.42%	19.7%

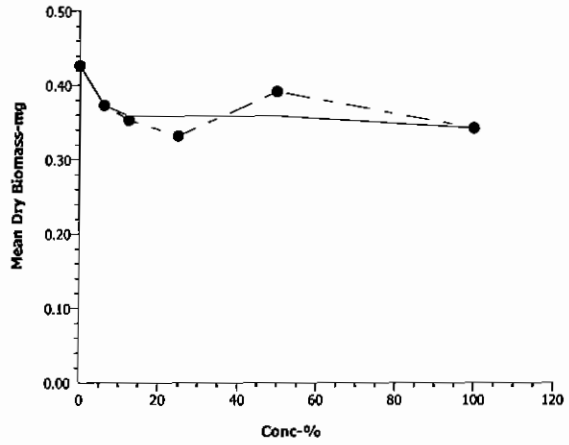
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3633	0.4347	0.4347	0.4733
6.25		0.2933	0.4327	0.3907	0.3767
12.5		0.36	0.3947	0.328	0.33
25		0.3927	0.3187	0.3127	0.3047
50		0.3387	0.3533	0.5547	0.3187
100		0.3553	0.3293	0.3613	0.324

Fathead Minnow 7-d Larval Survival and Growth Test | Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	13-5780-5115	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 11:03	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	10-8498-3825	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 11:02	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	17-5650-0091	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:49	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	15-9652-1254	Code:	VCF1010039af	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	25h (12.5 °C)	Station:	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.773	2.802	0.0571	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	96.67	N/A	N/A	1.034	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9667	0.9333	1	0.007027	0.03849	3.98%	0.0%	58	60
6.25		4	0.9167	0.6667	1	0.03043	0.1667	18.18%	5.17%	55	60
12.5		4	0.9333	0.8	1	0.01721	0.09428	10.1%	3.45%	56	60
25		4	0.9167	0.8	1	0.01826	0.1	10.91%	5.17%	55	60
50		4	1	1	1	0	0	0.0%	-3.45%	60	60
100		4	0.9167	0.8667	1	0.01165	0.06383	6.96%	5.17%	55	60

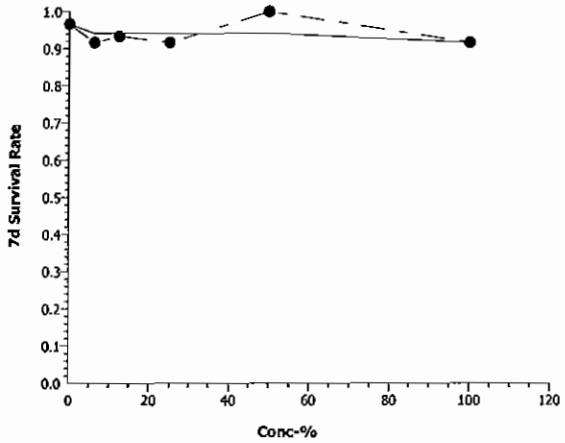
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9333	1	0.9333	1
6.25		0.6667	1	1	1
12.5		1	0.9333	0.8	1
25		1	0.8667	1	0.8
50		1	1	1	1
100		0.9333	0.8667	1	0.8667

Fathead Minnow 7-d Larval Survival and Growth Test | Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	10-8498-3825	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 11:02	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Measurement Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	17-5650-0091	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:49	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	15-9652-1254	**Code:**	VCF1010039af	**Client:**	VCWPD
Sample Date:	06 Oct-10 14:15	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	**Source:**	Bioassay Report		
Sample Age:	25h (12.5 °C)	**Station:**	MO-OXN		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	20	20	20	20	20	0	0	0.0%	0
Overall		16	40.38			20	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	314.5	312.6	316.4	304	321	0.9301	5.581	1.77%	0
12.5		8	304	301.5	306.5	293	311	1.241	7.445	2.45%	0
25		8	285.4	281.8	288.9	273	306	1.746	10.47	3.67%	0
50		8	241.3	238.8	243.7	229	248	1.198	7.186	2.98%	0
100		8	157.4	154.9	159.8	148	168	1.208	7.249	4.61%	0
Overall		48	273.5			148	361				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.313	7.045	7.58	6.1	8.4	0.132	0.7918	10.83%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.246			5.9	8.4				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	50	50	50	50	50	0	0	0.0%	0
Overall		16	67.63			50	90				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		20	20	20	20	20	20	20	20

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		310	312	317	318	319	321	315	304
12.5		293	303	310	310	310	311	301	294
25		275	282	288	289	290	306	280	273
50		229	241	245	248	248	247	239	233
100		148	154	155	159	152	155	168	168

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	8.4	7.8	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		50	50	50	50	50	50	50	50

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-OXN
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.039

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	14-0411-1420	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:49	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	18-6644-8980	Code:	VCF1010039ac	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	25h (12.5 °C)	Station:	MO-OXN		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
12-8268-7586	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
11-9592-1981	Reproduction	100	>100	N/A	13.46%	1	Steel Many-One Rank Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
05-0946-1744	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
03-0173-5892	Reproduction	IC5	8.525	6.108	9.92	11.73	Linear Interpolation (ICPIN)
		IC10	10.8	9.199	N/A	9.259	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
05-0946-1744	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
12-8268-7586	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
03-0173-5892	Reproduction	Control Resp	20.7	15 - NL	Yes	Result Within Limits
11-9592-1981	Reproduction	Control Resp	20.7	15 - NL	Yes	Result Within Limits
11-9592-1981	Reproduction	PMSD	0.1346	0.13 - 0.47	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	20.7	20.27	21.13	19	23	0.2117	1.16	5.6%	0.0%
6.25		10	20.8	20.2	21.4	18	23	0.2956	1.619	7.79%	-0.48%
12.5		10	17.3	16.34	18.26	14	23	0.4718	2.584	14.94%	16.43%
25		10	16.5	15.62	17.38	14	20	0.4325	2.369	14.36%	20.29%
50		10	19.9	18.44	21.36	13	24	0.7121	3.9	19.6%	3.87%
100		10	17.9	16.55	19.25	12	23	0.658	3.604	20.13%	13.53%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	20	20	20	20	23	22	19	21	21	21
6.25		21	21	20	23	18	20	23	22	19	21
12.5		16	19	16	14	18	15	23	16	17	19
25		20	19	17	15	14	14	19	18	15	14
50		24	20	14	17	23	21	13	22	23	22
100		19	23	22	19	14	12	17	14	19	20

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	11-9592-1981	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:11	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes
Batch ID:	14-0411-1420	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:49	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	18-6644-8980	Code:	VCF1010039ac	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	25h (12.5 °C)	Station:	MO-OXN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	13.46%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	108.5	75	5	0.9005	Non-Significant Effect
		12.5*	65.5	75	2	0.0063	Significant Effect
		25*	59	75	2	0.0012	Significant Effect
		50	110.5	75	4	0.9287	Non-Significant Effect
		100	77.5	75	4	0.0711	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	20.7	15 - NL	Yes	Result Within Limits
PMSD	0.1346	0.13 - 0.47	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.65	3.2	0.3875	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	171.55	34.31	5	4.631	0.0014	Significant Effect
Error	400.1	7.409259	54			
Total	571.65	41.71926	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	15.93	15.09	0.0070	Unequal Variances
Variances	Mod Levene Equality of Variance	1.814	3.377	0.1255	Equal Variances
Distribution	Shapiro-Wilk Normality	0.985		0.6700	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.06532	0.1331	0.7438	Normal Distribution
Distribution	D'Agostino Skewness	1.164	2.576	0.2446	Normal Distribution
Distribution	D'Agostino Kurtosis	0.6813	2.576	0.4957	Normal Distribution
Distribution	D'Agostino Omnibus	1.818	9.21	0.4029	Normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	20.7	20.26	21.14	19	23	0.2153	1.16	5.6%	0.0%
6.25		10	20.8	20.18	21.42	18	23	0.3007	1.619	7.79%	-0.48%
12.5		10	17.3	16.32	18.28	14	23	0.4799	2.584	14.94%	16.43%
25		10	16.5	15.6	17.4	14	20	0.4399	2.369	14.36%	20.29%
50		10	19.9	18.42	21.38	13	24	0.7242	3.9	19.6%	3.87%
100		10	17.9	16.53	19.27	12	23	0.6692	3.604	20.13%	13.53%

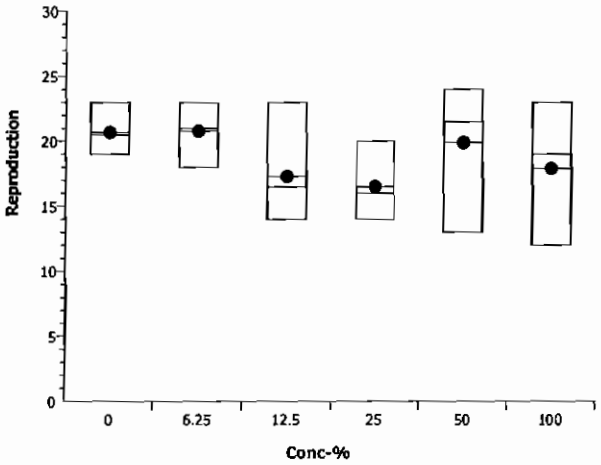
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

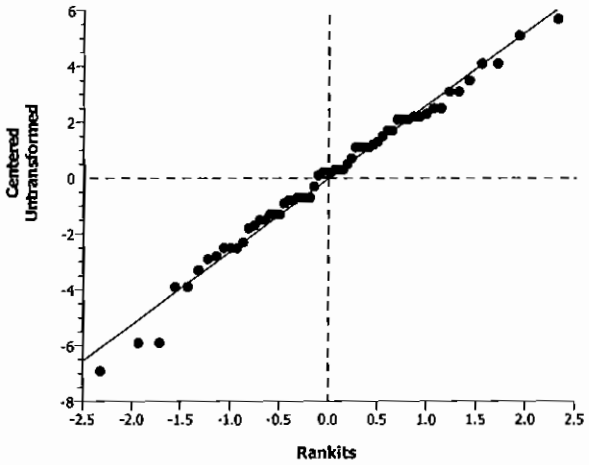
Analysis ID:	11-9592-1981	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:11	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	20	20	20	20	23	22	19	21	21	21
6.25		21	21	20	23	18	20	23	22	19	21
12.5		16	19	16	14	18	15	23	16	17	19
25		20	19	17	15	14	14	19	18	15	14
50		24	20	14	17	23	21	13	22	23	22
100		19	23	22	19	14	12	17	14	19	20

Graphics





CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	03-0173-5892	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:11	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	14-0411-1420	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:49	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	18-6644-8980	Code:	VCF1010039ac	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	25h (12.5 °C)	Station:	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7607236	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	20.7	15 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.65	3.2	0.3875	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	8.525	6.108	9.92	11.73	10.08	16.37
IC10	10.8	9.199	N/A	9.259	N/A	10.87
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	20.7	19	23	0.2117	1.16	5.6%	0.0%
6.25		10	20.8	18	23	0.2956	1.619	7.79%	-0.48%
12.5		10	17.3	14	23	0.4718	2.584	14.94%	16.43%
25		10	16.5	14	20	0.4325	2.369	14.36%	20.29%
50		10	19.9	13	24	0.7121	3.9	19.6%	3.87%
100		10	17.9	12	23	0.658	3.604	20.13%	13.53%

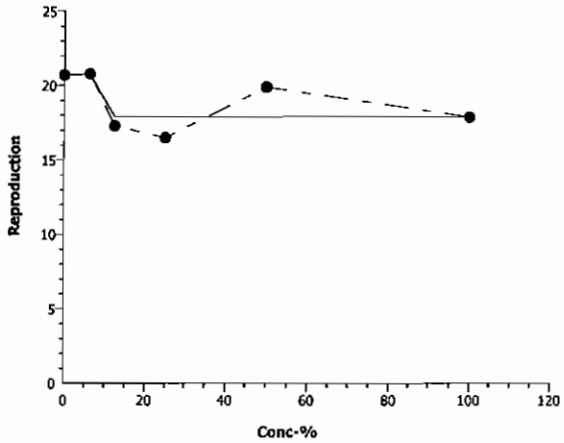
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	20	20	20	20	23	22	19	21	21	21
6.25		21	21	20	23	18	20	23	22	19	21
12.5		16	19	16	14	18	15	23	16	17	19
25		20	19	17	15	14	14	19	18	15	14
50		24	20	14	17	23	21	13	22	23	22
100		19	23	22	19	14	12	17	14	19	20

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	03-0173-5892	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:11	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-0946-1744	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:11	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	14-0411-1420	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:49	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	18-6644-8980	Code:	VCF1010039ac	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	25h (12.5 °C)	Station:	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7607236	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

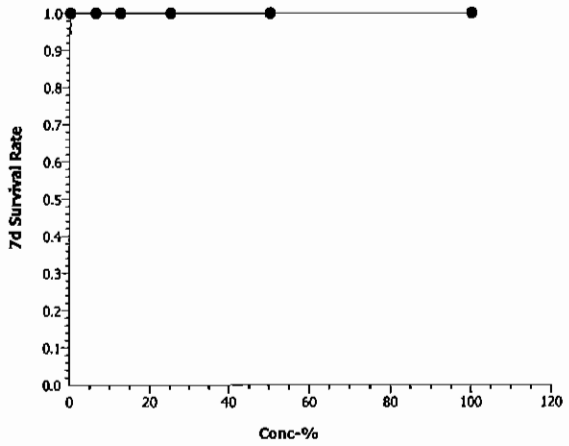
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-0946-1744	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:11	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	12-8268-7586	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:11	Analysis:	STP 2x2 Contingency Tables	Official Results:	Yes
Batch ID:	14-0411-1420	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:49	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	18-6644-8980	Code:	VCF1010039ac	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	25h (12.5 °C)	Station:	MO-OXN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

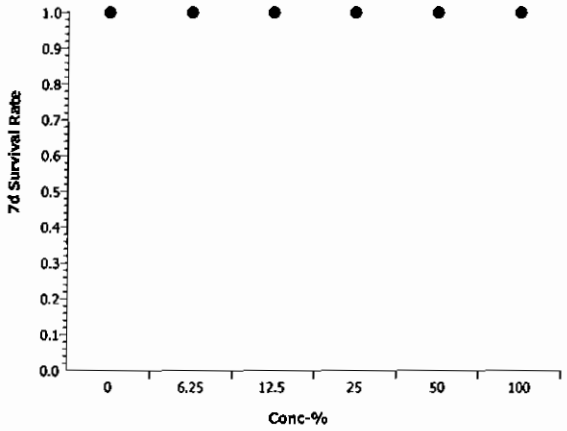
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	12-8268-7586	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:11	Analysis:	STP 2x2 Contingency Tables	Official Results:	Yes

Graphics



CETIS Measurement Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	14-0411-1420	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:49	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	18-6644-8980	Code:	VCF1010039ac	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	25h (12.5 °C)	Station:	MO-OXN		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	20	20	20	20	20	0	0	0.0%	0
Overall		16	40.38			20	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	314.5	312.6	316.4	304	321	0.9301	5.581	1.77%	0
12.5		8	304	301.5	306.5	293	311	1.241	7.445	2.45%	0
25		8	285.4	281.8	288.9	273	306	1.746	10.47	3.67%	0
50		8	241.3	238.8	243.7	229	248	1.198	7.186	2.98%	0
100		8	157.4	154.9	159.8	148	168	1.208	7.249	4.61%	0
Overall		48	273.5			148	361				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.313	7.045	7.58	6.1	8.4	0.132	0.7918	10.83%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.246			5.9	8.4				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	50	50	50	50	50	0	0	0.0%	0
Overall		16	67.63			50	90				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		20	20	20	20	20	20	20	20

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		310	312	317	318	319	321	315	304
12.5		293	303	310	310	310	311	301	294
25		275	282	288	289	290	306	280	273
50		229	241	245	248	248	247	239	233
100		148	154	155	159	152	155	168	168

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	8.4	7.8	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		50	50	50	50	50	50	50	50

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-OXN
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.039

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	03-6220-4973	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:54	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	10-7071-3341	**Code:**	VCF1010039s	**Client:**	VCWPD
Sample Date:	06 Oct-10 14:15	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	**Source:**	Bioassay Report		
Sample Age:	23h (12.5 °C)	**Station:**	MO-OXN		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
15-4535-4410	Cell Density	100	>100	N/A	14.76%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
03-8336-9851	Cell Density	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
03-8336-9851	Cell Density	Control CV	0.1415	NL - 0.2	Yes	Result Within Limits
15-4535-4410	Cell Density	Control CV	0.1415	NL - 0.2	Yes	Result Within Limits
03-8336-9851	Cell Density	Control Resp	1.27E+6	1.00E+6 - NL	Yes	Result Within Limits
15-4535-4410	Cell Density	Control Resp	1.27E+6	1.00E+6 - NL	Yes	Result Within Limits
15-4535-4410	Cell Density	PMSD	0.1476	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.271E+6	1.204E+6	1.338E+6	1.159E+6	1.537E+6	3.282E+4	1.798E+5	14.15%	0.0%
6.25		4	1.636E+6	1.613E+6	1.659E+6	1.554E+6	1.690E+6	1.125E+4	6.160E+4	3.77%	-28.74%
12.5		4	1.770E+6	1.726E+6	1.815E+6	1.593E+6	1.849E+6	2.185E+4	1.197E+5	6.76%	-39.31%
25		4	1.721E+6	1.697E+6	1.745E+6	1.651E+6	1.807E+6	1.183E+4	6.477E+4	3.76%	-35.43%
50		4	1.747E+6	1.701E+6	1.793E+6	1.572E+6	1.846E+6	2.255E+4	1.235E+5	7.07%	-37.48%
100		4	1.610E+6	1.589E+6	1.630E+6	1.563E+6	1.678E+6	9.998E+3	5.476E+4	3.4%	-26.68%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.537E+6	1.165E+6
6.25		1.676E+6	1.554E+6	1.690E+6	1.624E+6
12.5		1.804E+6	1.835E+6	1.593E+6	1.849E+6
25		1.651E+6	1.722E+6	1.807E+6	1.704E+6
50		1.572E+6	1.750E+6	1.820E+6	1.846E+6
100		1.568E+6	1.678E+6	1.563E+6	1.630E+6

CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	15-4535-4410	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:46	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	03-6220-4973	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:54	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	10-7071-3341	**Code:**	VCF1010039s	**Client:**	VCWPD
Sample Date:	06 Oct-10 14:15	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	**Source:**	Bioassay Report		
Sample Age:	23h (12.5 °C)	**Station:**	MO-OXN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	14.76%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-4.687	2.407	187600	1.0000	Non-Significant Effect
		12.5	-6.41	2.407	187600	1.0000	Non-Significant Effect
		25	-5.778	2.407	187600	1.0000	Non-Significant Effect
		50	-6.111	2.407	187600	1.0000	Non-Significant Effect
		100	-4.35	2.407	187600	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.1415	NL - 0.2	Yes	Result Within Limits
Control Resp	1.27E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1476	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.731	2.802	0.0688	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	6.841617E+11	1.368323E+11	5	11.27	<0.0001	Significant Effect
Error	2.186182E+11	12145460000	18			
Total	9.0278E+11	1.489778E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.986	15.09	0.3075	Equal Variances
Variances	Mod Levene Equality of Variance	0.376	4.248	0.8586	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9566		0.3742	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1133	0.2056	0.6024	Normal Distribution
Distribution	D'Agostino Skewness	0.8537	2.576	0.3933	Normal Distribution
Distribution	D'Agostino Kurtosis	1.39	2.576	0.1645	Normal Distribution
Distribution	D'Agostino Omnibus	2.661	9.21	0.2643	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.271E+6	1.202E+6	1.339E+6	1.159E+6	1.537E+6	3.338E+4	1.798E+5	14.15%	0.0%
6.25		4	1.636E+6	1.613E+6	1.659E+6	1.554E+6	1.690E+6	1.144E+4	6.160E+4	3.77%	-28.74%
12.5		4	1.770E+6	1.725E+6	1.816E+6	1.593E+6	1.849E+6	2.222E+4	1.197E+5	6.76%	-39.31%
25		4	1.721E+6	1.696E+6	1.746E+6	1.651E+6	1.807E+6	1.203E+4	6.477E+4	3.76%	-35.43%
50		4	1.747E+6	1.700E+6	1.794E+6	1.572E+6	1.846E+6	2.294E+4	1.235E+5	7.07%	-37.48%
100		4	1.610E+6	1.589E+6	1.631E+6	1.563E+6	1.678E+6	1.017E+4	5.476E+4	3.4%	-26.68%

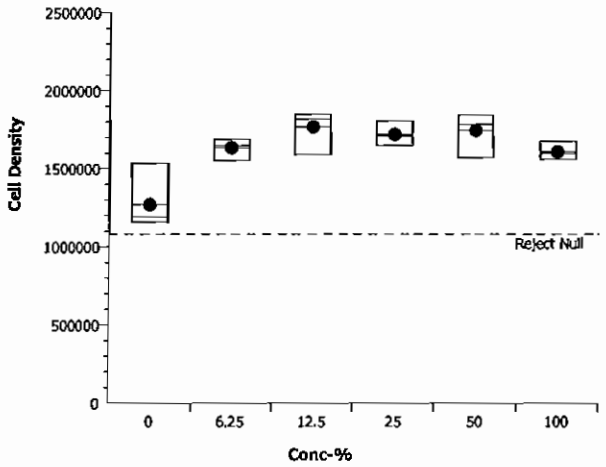
Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

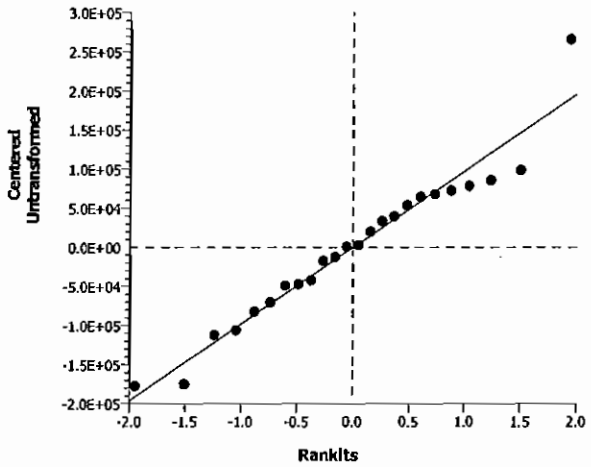
Analysis ID:	15-4535-4410	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:46	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.537E+6	1.165E+6
6.25		1.676E+6	1.554E+6	1.690E+6	1.624E+6
12.5		1.804E+6	1.835E+6	1.593E+6	1.849E+6
25		1.651E+6	1.722E+6	1.807E+6	1.704E+6
50		1.572E+6	1.750E+6	1.820E+6	1.846E+6
100		1.568E+6	1.678E+6	1.563E+6	1.630E+6

Graphics





CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	03-8336-9851	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 11:46	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	03-6220-4973	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:54	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	10-7071-3341	Code:	VCF1010039s	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	23h (12.5 °C)	Station:	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	9619532	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.1415	NL - 0.2	Yes	Result Within Limits
Control Resp	1.27E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.731	2.802	0.0688	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.271E+6	1.159E+6	1.537E+6	3.282E+4	1.798E+5	14.15%	0.0%
6.25		4	1.636E+6	1.554E+6	1.690E+6	1.125E+4	6.160E+4	3.77%	-28.74%
12.5		4	1.770E+6	1.593E+6	1.849E+6	2.185E+4	1.197E+5	6.76%	-39.31%
25		4	1.721E+6	1.651E+6	1.807E+6	1.183E+4	6.477E+4	3.76%	-35.43%
50		4	1.747E+6	1.572E+6	1.846E+6	2.255E+4	1.235E+5	7.07%	-37.48%
100		4	1.610E+6	1.563E+6	1.678E+6	9.998E+3	5.476E+4	3.4%	-26.68%

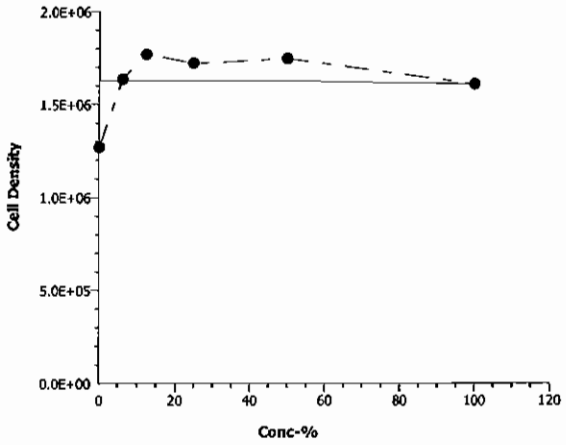
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.537E+6	1.165E+6
6.25		1.676E+6	1.554E+6	1.690E+6	1.624E+6
12.5		1.804E+6	1.835E+6	1.593E+6	1.849E+6
25		1.651E+6	1.722E+6	1.807E+6	1.704E+6
50		1.572E+6	1.750E+6	1.820E+6	1.846E+6
100		1.568E+6	1.678E+6	1.563E+6	1.630E+6

Selenastrum Growth Test | **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	03-8336-9851	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:46	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Measurement Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	03-6220-4973	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:54	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	10-7071-3341	Code:	VCF1010039s	Client:	VCWPD
Sample Date:	06 Oct-10 14:15	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	23h (12.5 °C)	Station:	MO-OXN		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	63			63	63	0	0	0.0%	0
12.5		1	71			71	71	0	0	0.0%	0
25		1	58			58	58	0	0	0.0%	0
50		1	60			60	60	0	0	0.0%	0
100		1	20			20	20	0	0	0.0%	0
Overall		6	56.83			20	71				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	412.6	408	417.2	400	436	2.284	13.7	3.32%	0
12.5		5	378.8	378.1	379.5	376	381	0.3206	1.924	0.51%	0
25		5	359.8	359.1	360.5	357	362	0.3613	2.168	0.6%	0
50		5	333.4	331.9	334.9	330	341	0.7509	4.506	1.35%	0
100		5	235.4	234.4	236.4	232	239	0.5083	3.05	1.3%	0
Overall		30	359.4			232	449				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	99			99	99	0	0	0.0%	0
12.5		1	107			107	107	0	0	0.0%	0
25		1	90			90	90	0	0	0.0%	0
50		1	90			90	90	0	0	0.0%	0
100		1	50			50	50	0	0	0.0%	0
Overall		6	91.83			50	115				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		63
12.5		71
25		58
50		60
100		20

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		400	407	410	410	436
12.5		378	376	379	380	381
25		361	357	358	362	361
50		333	333	330	330	341
100		232	233	235	238	239

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		99
12.5		107
25		90
50		90
100		50

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-HUE
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.040

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	00-5392-6968	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:50	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	06-2752-9290	**Code:**	VCF1010040af	**Client:**	VCWPD
Sample Date:	06 Oct-10 15:35	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	**Source:**	Bioassay Report		
Sample Age:	23h (12.5 °C)	**Station:**	MO-HUE		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
07-5894-1473	7d Survival Rate	100	>100	N/A	4.53%	1	Steel Many-One Rank Test
08-1459-0648	Mean Dry Biomass-mg	100	>100	N/A	22.62%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
09-8423-4780	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
16-7599-1670	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
07-5894-1473	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
09-8423-4780	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
08-1459-0648	Mean Dry Biomass-mg	Control Resp	0.286	0.25 - NL	Yes	Result Within Limits
16-7599-1670	Mean Dry Biomass-mg	Control Resp	0.286	0.25 - NL	Yes	Result Within Limits
08-1459-0648	Mean Dry Biomass-mg	PMSD	0.2262	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	-1.7%
12.5		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	1.7%
25		4	1	1	1	1	1	0	0	0.0%	-1.7%
50		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	1.7%
100		4	1	1	1	1	1	0	0	0.0%	-1.7%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.286	0.2791	0.2929	0.2647	0.3027	0.00336	0.0184	6.44%	0.0%
6.25		4	0.3798	0.3666	0.393	0.33	0.4087	0.006454	0.03535	9.31%	-32.81%
12.5		4	0.4055	0.3909	0.4201	0.376	0.46	0.007121	0.039	9.62%	-41.78%
25		4	0.3797	0.3594	0.3999	0.308	0.436	0.009899	0.05422	14.28%	-32.75%
50		4	0.3713	0.3614	0.3813	0.3407	0.3973	0.004851	0.02657	7.16%	-29.84%
100		4	0.3665	0.3502	0.3828	0.326	0.4287	0.007986	0.04374	11.93%	-28.15%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.9333
6.25		1	1	1	1
12.5		0.9333	1	1	0.9333
25		1	1	1	1
50		1	0.9333	0.9333	1
100		1	1	1	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3027	0.2767	0.3	0.2647
6.25		0.33	0.4087	0.38	0.4007
12.5		0.376	0.46	0.4073	0.3787
25		0.4013	0.3733	0.436	0.308
50		0.3407	0.3973	0.3893	0.358
100		0.3553	0.4287	0.356	0.326

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	08-1459-0648	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 11:29	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	00-5392-6968	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-2752-9290	Code:	VCF1010040af	Client:	VCWPD
Sample Date:	06 Oct-10 15:35	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	23h (12.5 °C)	Station:	MO-HUE		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	22.62%

Dunnett's Multiple Comparison Test

Control	vs Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control	6.25	-3.491	2.407	0.0647	1.0000	Non-Significant Effect
	12.5	-4.446	2.407	0.0647	1.0000	Non-Significant Effect
	25	-3.485	2.407	0.0647	1.0000	Non-Significant Effect
	50	-3.175	2.407	0.0647	1.0000	Non-Significant Effect
	100	-2.995	2.407	0.0647	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.286	0.25 - NL	Yes	Result Within Limits
PMSD	0.2262	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.131	2.802	0.6207	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.03343409	0.006686818	5	4.628	0.0069	Significant Effect
Error	0.02600589	0.001444772	18			
Total	0.05943998	0.00813159	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.37	15.09	0.6431	Equal Variances
Variances	Mod Levene Equality of Variance	0.416	4.248	0.8315	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9808		0.9095	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.07809	0.2056	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.01987	2.576	0.9841	Normal Distribution
Distribution	D'Agostino Kurtosis	0.01521	2.576	0.9879	Normal Distribution
Distribution	D'Agostino Omnibus	0.000626	9.21	0.9997	Normal Distribution

Mean Dry Biomass-mg Summary

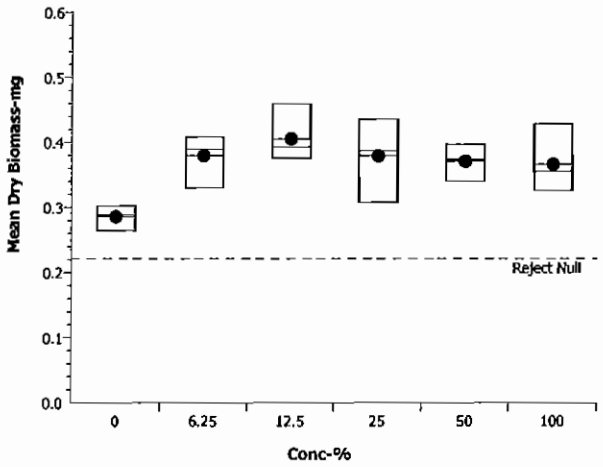
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.286	0.279	0.293	0.2647	0.3027	0.003417	0.0184	6.44%	0.0%
6.25		4	0.3798	0.3664	0.3933	0.33	0.4087	0.006564	0.03535	9.31%	-32.81%
12.5		4	0.4055	0.3907	0.4203	0.376	0.46	0.007243	0.039	9.62%	-41.78%
25		4	0.3797	0.359	0.4003	0.308	0.436	0.01007	0.05422	14.28%	-32.75%
50		4	0.3713	0.3612	0.3814	0.3407	0.3973	0.004934	0.02657	7.16%	-29.84%
100		4	0.3665	0.3499	0.3831	0.326	0.4287	0.008123	0.04374	11.93%	-28.15%

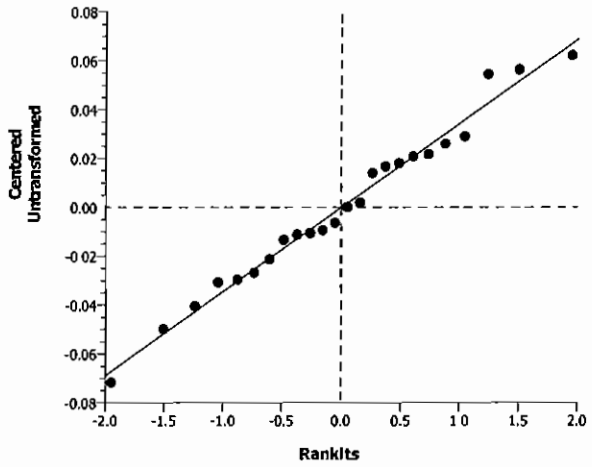
Analysis ID:	08-1459-0648	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 11:29	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3027	0.2767	0.3	0.2647
6.25		0.33	0.4087	0.38	0.4007
12.5		0.376	0.46	0.4073	0.3787
25		0.4013	0.3733	0.436	0.308
50		0.3407	0.3973	0.3893	0.358
100		0.3553	0.4287	0.356	0.326

Graphics





Analysis ID:	07-5894-1473	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 11:29	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes
Batch ID:	00-5392-6968	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-2752-9290	Code:	VCF1010040af	Client:	VCWPD
Sample Date:	06 Oct-10 15:35	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	23h (12.5 °C)	Station:	MO-HUE		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	4.53%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	20	10	1	0.9516	Non-Significant Effect
		12.5	16	10	2	0.6105	Non-Significant Effect
		25	20	10	1	0.9516	Non-Significant Effect
		50	16	10	2	0.6105	Non-Significant Effect
		100	20	10	1	0.9516	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.169	2.802	0.5529	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.02095734	0.004191468	5	1.582	0.2155	Non-Significant Effect
Error	0.04769601	0.002649779	18			
Total	0.06865335	0.006841247	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	5.8	4.248	0.0023	Unequal Variances
Distribution	Shapiro-Wilk Normality	0.8693		0.0051	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.2917	0.2056	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	0.9512	2.576	0.3415	Normal Distribution
Distribution	D'Agostino Kurtosis	0.03004	2.576	0.9760	Normal Distribution
Distribution	D'Agostino Omnibus	0.9057	9.21	0.6358	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	07-5894-1473	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 11:29	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	-1.7%
12.5		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	1.7%
25		4	1	1	1	1	1	0	0	0.0%	-1.7%
50		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	1.7%
100		4	1	1	1	1	1	0	0	0.0%	-1.7%

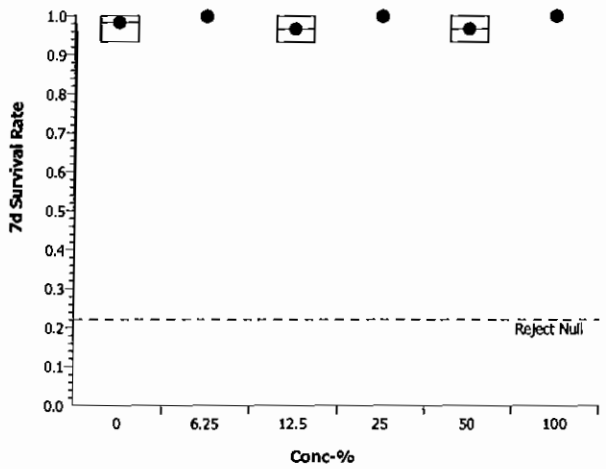
Angular (Corrected) Transformed Summary

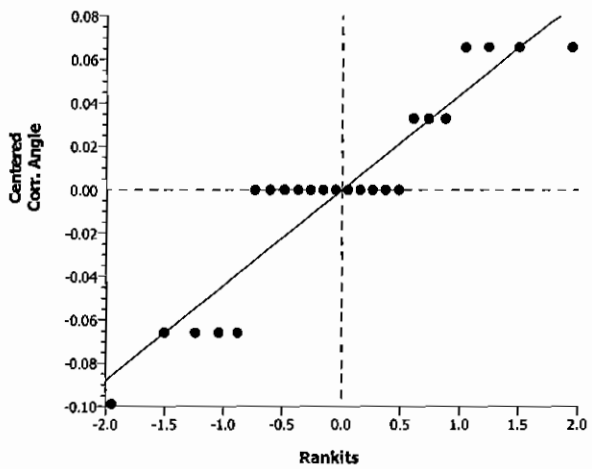
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	0.0%
6.25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-2.34%
12.5		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	2.34%
25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-2.34%
50		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	2.34%
100		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-2.34%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.9333
6.25		1	1	1	1
12.5		0.9333	1	1	0.9333
25		1	1	1	1
50		1	0.9333	0.9333	1
100		1	1	1	1

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	16-7599-1670	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 11:29	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	00-5392-6968	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-2752-9290	Code:	VCF1010040af	Client:	VCWPD
Sample Date:	06 Oct-10 15:35	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	23h (12.5 °C)	Station:	MO-HUE		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.286	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.131	2.802	0.6207	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.286	0.2647	0.3027	0.00336	0.0184	6.44%	0.0%
6.25		4	0.3798	0.33	0.4087	0.006454	0.03535	9.31%	-32.81%
12.5		4	0.4055	0.376	0.46	0.007121	0.039	9.62%	-41.78%
25		4	0.3797	0.308	0.436	0.009899	0.05422	14.28%	-32.75%
50		4	0.3713	0.3407	0.3973	0.004851	0.02657	7.16%	-29.84%
100		4	0.3665	0.326	0.4287	0.007986	0.04374	11.93%	-28.15%

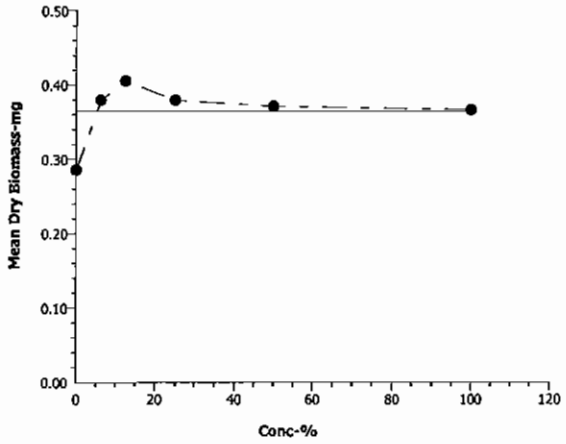
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3027	0.2767	0.3	0.2647
6.25		0.33	0.4087	0.38	0.4007
12.5		0.376	0.46	0.4073	0.3787
25		0.4013	0.3733	0.436	0.308
50		0.3407	0.3973	0.3893	0.358
100		0.3553	0.4287	0.356	0.326

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	16-7599-1670	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 11:29	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-8423-4780	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 11:29	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	00-5392-6968	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-2752-9290	Code:	VCF1010040af	Client:	VCWPD
Sample Date:	06 Oct-10 15:35	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	23h (12.5 °C)	Station:	MO-HUE		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.169	2.802	0.5529	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9833	0.9333	1	0.006086	0.03333	3.39%	0.0%	59	60
6.25		4	1	1	1	0	0	0.0%	-1.7%	60	60
12.5		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	1.7%	58	60
25		4	1	1	1	0	0	0.0%	-1.7%	60	60
50		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	1.7%	58	60
100		4	1	1	1	0	0	0.0%	-1.7%	60	60

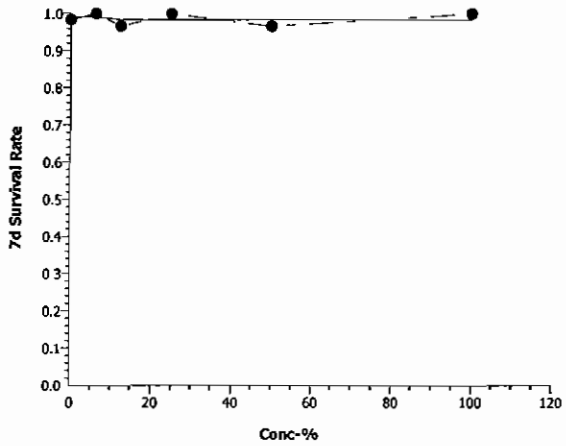
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.9333
6.25		1	1	1	1
12.5		0.9333	1	1	0.9333
25		1	1	1	1
50		1	0.9333	0.9333	1
100		1	1	1	1

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	09-8423-4780	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 11:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	00-5392-6968	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-2752-9290	Code:	VCF1010040af	Client:	VCWPD
Sample Date:	06 Oct-10 15:35	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	23h (12.5 °C)	Station:	MO-HUE		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	64	64	64	64	64	0	0	0.0%	0
Overall		16	62.38			60	64				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	351.4	347.8	355	339	375	1.775	10.65	3.03%	0
12.5		8	426	414.8	437.2	396	501	5.504	33.02	7.75%	0
25		8	566.1	539.6	592.7	486	696	13.08	78.48	13.86%	0
50		8	696.4	692.7	700.1	675	710	1.826	10.95	1.57%	0
100		8	1077	1070	1084	1039	1114	3.352	20.11	1.87%	0
Overall		48	575.9			326	1114				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.288	7.082	7.493	6.6	8	0.1014	0.6081	8.35%	0
12.5		8	7.2	6.982	7.418	6.2	8.1	0.1073	0.6437	8.94%	0
25		8	16.55	7.6	25.5	6.2	82	4.409	26.45	159.8%	0
50		8	7.288	7.035	7.54	6	8.2	0.1242	0.7453	10.23%	0
100		8	7.275	7.024	7.526	5.9	8.1	0.1237	0.7421	10.2%	0
Overall		48	8.869			5.9	82				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	193	193	193	193	193	0	0	0.0%	0
Overall		16	139.1			83	193				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.657	7.768	7.5	7.9	0.02737	0.1642	2.13%	0
12.5		8	7.65	7.596	7.704	7.5	7.9	0.02673	0.1604	2.1%	0
25		8	24.3	24.24	24.36	24	24.5	0.02817	0.169	0.7%	0
50		8	7.6	7.53	7.67	7.4	7.9	0.0345	0.207	2.72%	0
100		8	7.588	7.516	7.659	7.4	7.9	0.035	0.21	2.77%	0
Overall		48	10.46			7.4	24.5				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.13	24.08	24.17	24	24.3	0.02136	0.1282	0.53%	0
12.5		8	24.3	24.26	24.34	24.1	24.4	0.01782	0.1069	0.44%	0
25		8	24.23	24.19	24.26	24.1	24.4	0.01725	0.1035	0.43%	0
50		8	24.3	24.24	24.36	24	24.5	0.02817	0.169	0.7%	0
100		8	24.31	24.26	24.37	24	24.5	0.02737	0.1642	0.68%	0
Overall		48	24.23			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		64	64	64	64	64	64	64	64

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		375	355	352	348	345	349	348	339
12.5		396	411	415	422	425	437	401	501
25		486	508	515	565	670	577	512	696
50		675	699	692	699	697	691	710	708
100		1039	1075	1075	1077	1078	1077	1114	1080

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	8	7.8	7.8	7.8	6.8	6.8	6.7
12.5		6.7	8.1	7	7.8	7.8	6.2	7	7
25		6.8	82	7.8	7.8	7.7	7	7.1	6.2
50		6.8	8.2	7.9	7.8	7.7	6.7	7.2	6
100		6.7	8.1	7.9	7.8	7.7	7.1	7	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		193	193	193	193	193	193	193	193

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.5	7.5	7.8	7.9	7.9	7.8	7.7	7.6
12.5		7.5	7.5	7.6	7.8	7.8	7.9	7.6	7.5
25		24.3	24.5	24.5	24	24.2	24.2	24.3	24.4
50		7.4	7.4	7.5	7.8	7.8	7.9	7.6	7.4
100		7.4	7.4	7.5	7.8	7.8	7.9	7.5	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.3	24.3	24.2	24.1	24	24.1	24	24
12.5		24.3	24.4	24.3	24.2	24.3	24.1	24.4	24.4
25		24.3	24.4	24.3	24.1	24.1	24.2	24.2	24.2
50		24.3	24.5	24.5	24	24.2	24.2	24.3	24.4
100		24.3	24.5	24.5	24	24.3	24.2	24.3	24.4

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-HUE
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.040

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	15-9991-8995	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:50	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	20-4134-3281	**Code:**	VCF1010040ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 15:35	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	**Source:**	Bioassay Report		
Sample Age:	23h (12.5 °C)	**Station:**	MO-HUE		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
08-9388-6338	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
17-1596-9992	Reproduction	100	>100	N/A	10.11%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
20-4909-5365	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
14-8942-5786	Reproduction	IC5	41.81	11.78	N/A	2.392	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
08-9388-6338	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
20-4909-5365	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
14-8942-5786	Reproduction	Control Resp	19.7	15 - NL	Yes	Result Within Limits
17-1596-9992	Reproduction	Control Resp	19.7	15 - NL	Yes	Result Within Limits
17-1596-9992	Reproduction	PMSD	0.1011	0.13 - 0.47	Yes	Result Below Limit

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	19.7	18.82	20.58	15	23	0.4308	2.359	11.98%	0.0%
6.25		10	21.3	20.69	21.91	18	24	0.2988	1.636	7.68%	-8.12%
12.5		10	19.6	18.99	20.21	18	23	0.3006	1.647	8.4%	0.51%
25		10	21.3	20.4	22.2	17	25	0.4393	2.406	11.3%	-8.12%
50		10	18.9	18.21	19.59	17	22	0.3383	1.853	9.8%	4.06%
100		10	19.1	18.5	19.7	17	22	0.2912	1.595	8.35%	3.05%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	18	23	19	19	19	23	20	21	20	15
6.25		24	21	21	23	22	21	20	18	21	22
12.5		18	23	19	19	20	18	19	18	21	21
25		23	21	21	21	21	23	25	18	17	23
50		18	21	18	19	19	17	17	17	22	21
100		18	20	19	18	18	18	21	17	20	22

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	17-1596-9992	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	15-9991-8995	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:50	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	20-4134-3281	**Code:**	VCF1010040ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 15:35	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	**Source:**	Bioassay Report		
Sample Age:	23h (12.5 °C)	**Station:**	MO-HUE		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	10.11%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-1.838	2.289	1.992	0.9991	Non-Significant Effect
		12.5	0.1149	2.289	1.992	0.7969	Non-Significant Effect
		25	-1.838	2.289	1.992	0.9991	Non-Significant Effect
		50	0.9192	2.289	1.992	0.4535	Non-Significant Effect
		100	0.6894	2.289	1.992	0.5602	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	19.7	15 - NL	Yes	Result Within Limits
PMSD	0.1011	0.13 - 0.47	Yes	Result Below Limit

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.525	3.2	0.5811	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	56.48333	11.29667	5	2.983	0.0189	Significant Effect
Error	204.5	3.787037	54			
Total	260.9833	15.0837	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.166	15.09	0.6744	Equal Variances
Variances	Mod Levene Equality of Variance	0.3863	3.377	0.8561	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9751		0.2582	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.114	0.1331	0.0506	Normal Distribution
Distribution	D'Agostino Skewness	0.2065	2.576	0.8364	Normal Distribution
Distribution	D'Agostino Kurtosis	0.251	2.576	0.8018	Normal Distribution
Distribution	D'Agostino Omnibus	0.1056	9.21	0.9485	Normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	19.7	18.8	20.6	15	23	0.4381	2.359	11.98%	0.0%
6.25		10	21.3	20.68	21.92	18	24	0.3039	1.636	7.68%	-8.12%
12.5		10	19.6	18.97	20.23	18	23	0.3058	1.647	8.4%	0.51%
25		10	21.3	20.38	22.22	17	25	0.4468	2.406	11.3%	-8.12%
50		10	18.9	18.2	19.6	17	22	0.3441	1.853	9.8%	4.06%
100		10	19.1	18.49	19.71	17	22	0.2962	1.595	8.35%	3.05%

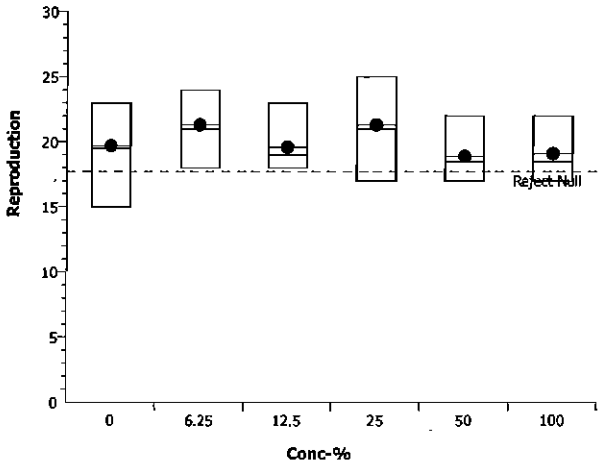
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

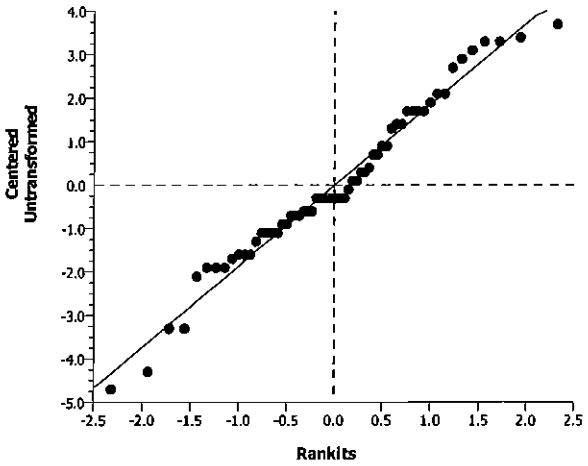
Analysis ID:	17-1596-9992	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:32	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	18	23	19	19	19	23	20	21	20	15
6.25		24	21	21	23	22	21	20	18	21	22
12.5		18	23	19	19	20	18	19	18	21	21
25		23	21	21	21	21	23	25	18	17	23
50		18	21	18	19	19	17	17	17	22	21
100		18	20	19	18	18	18	21	17	20	22

Graphics





Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	14-8942-5786	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:32	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	15-9991-8995	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	20-4134-3281	Code:	VCF1010040ac	Client:	VCWPD
Sample Date:	06 Oct-10 15:35	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	23h (12.5 °C)	Station:	MO-HUE		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	8144900	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	19.7	15 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.525	3.2	0.5811	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	41.81	11.78	N/A	2.392	N/A	8.486
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	19.7	15	23	0.4308	2.359	11.98%	0.0%
6.25		10	21.3	18	24	0.2988	1.636	7.68%	-8.12%
12.5		10	19.6	18	23	0.3006	1.647	8.4%	0.51%
25		10	21.3	17	25	0.4393	2.406	11.3%	-8.12%
50		10	18.9	17	22	0.3383	1.853	9.8%	4.06%
100		10	19.1	17	22	0.2912	1.595	8.35%	3.05%

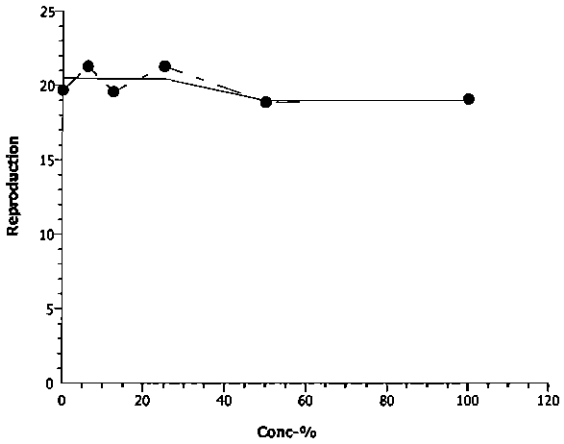
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	18	23	19	19	19	23	20	21	20	15
6.25		24	21	21	23	22	21	20	18	21	22
12.5		18	23	19	19	20	18	19	18	21	21
25		23	21	21	21	21	23	25	18	17	23
50		18	21	18	19	19	17	17	17	22	21
100		18	20	19	18	18	18	21	17	20	22

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	14-8942-5786	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:32	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	20-4909-5365	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:32	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	15-9991-8995	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:50	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	20-4134-3281	**Code:**	VCF1010040ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 15:35	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	**Source:**	Bioassay Report		
Sample Age:	23h (12.5 °C)	**Station:**	MO-HUE		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	8144900	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

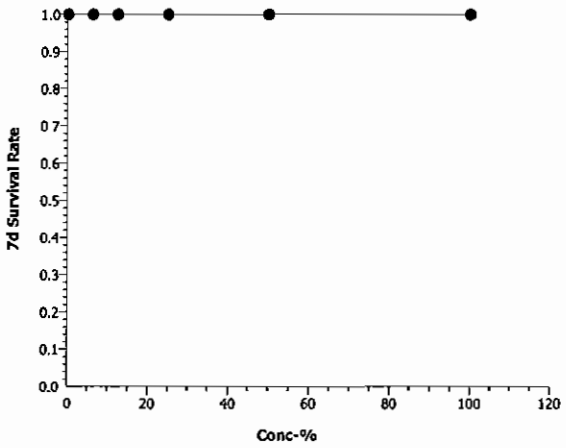
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	20-4909-5365	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:32	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	08-9388-6338	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:32	Analysis:	STP 2x2 Contingency Tables	Official Results:	Yes
Batch ID:	15-9991-8995	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	20-4134-3281	Code:	VCF1010040ac	Client:	VCWPD
Sample Date:	06 Oct-10 15:35	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	23h (12.5 °C)	Station:	MO-HUE		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

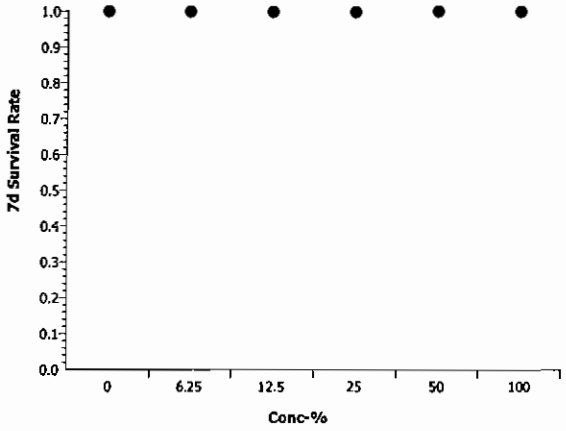
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	08-9388-6338	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:32	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Measurement Report

Test Code: 10-8867-6391/VCF1010040acer

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	15-9991-8995	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:50	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	20-4134-3281	**Code:**	VCF1010040ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 15:35	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	**Source:**	Bioassay Report		
Sample Age:	23h (12.5 °C)	**Station:**	MO-HUE		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr								
100									

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr								
6.25									
12.5									
25									
50									
100									

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr								
6.25									
12.5									
25									
50									
100									

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr								
100									

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr								
6.25									
12.5									
25									
50									
100									

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr								
6.25									
12.5									
25									
50									
100									

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-HUE
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.040

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	19-3239-9784	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:52	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	00-5933-6486	Code:	VCF1010040s	Client:	VCWPD
Sample Date:	06 Oct-10 15:35	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	21h (12.5 °C)	Station:	MO-HUE		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
17-4768-7484	Cell Density	100	>100	N/A	15.43%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
02-5737-9193	Cell Density	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
02-5737-9193	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
17-4768-7484	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
02-5737-9193	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
17-4768-7484	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
17-4768-7484	Cell Density	PMSD	0.1543	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.117E+6	1.175E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.807E+6	1.789E+6	1.824E+6	1.760E+6	1.855E+6	8.418E+3	4.610E+4	2.55%	-57.67%
12.5		4	1.900E+6	1.844E+6	1.955E+6	1.771E+6	2.080E+6	2.706E+4	1.482E+5	7.8%	-65.81%
25		4	2.007E+6	1.977E+6	2.036E+6	1.890E+6	2.052E+6	1.423E+4	7.792E+4	3.88%	-75.13%
50		4	1.917E+6	1.876E+6	1.957E+6	1.781E+6	2.039E+6	1.968E+4	1.078E+5	5.63%	-67.29%
100		4	1.872E+6	1.823E+6	1.921E+6	1.753E+6	2.038E+6	2.372E+4	1.299E+5	6.94%	-63.39%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.775E+6	1.836E+6	1.855E+6	1.760E+6
12.5		2.080E+6	1.771E+6	1.962E+6	1.786E+6
25		1.890E+6	2.047E+6	2.052E+6	2.037E+6
50		1.781E+6	1.950E+6	1.897E+6	2.039E+6
100		1.753E+6	2.038E+6	1.786E+6	1.911E+6

CETIS Analytical Report

Test Code: 05-2622-8952/VCF1010040sel

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	17-4768-7484	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:06	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	19-3239-9784	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:52	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	00-5933-6486	**Code:**	VCF1010040s	**Client:**	VCWPD
Sample Date:	06 Oct-10 15:35	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	**Source:**	Bioassay Report		
Sample Age:	21h (12.5 °C)	**Station:**	MO-HUE		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	15.43%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-8.997	2.407	176800	1.0000	Non-Significant Effect
		12.5	-10.27	2.407	176800	1.0000	Non-Significant Effect
		25	-11.72	2.407	176800	1.0000	Non-Significant Effect
		50	-10.5	2.407	176800	1.0000	Non-Significant Effect
		100	-9.889	2.407	176800	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1543	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.962	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	1.982414E+12	3.964827E+11	5	36.76	<0.0001	Significant Effect
Error	1.941602E+11	10786680000	18			
Total	2.176574E+12	4.072694E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	4.095	15.09	0.5358	Equal Variances
Variances	Mod Levene Equality of Variance	1.474	4.248	0.2469	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9347		0.1243	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1407	0.2056	0.2495	Normal Distribution
Distribution	D'Agostino Skewness	0.2668	2.576	0.7896	Normal Distribution
Distribution	D'Agostino Kurtosis	0.7725	2.576	0.4398	Normal Distribution
Distribution	D'Agostino Omnibus	0.6679	9.21	0.7161	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.116E+6	1.175E+6	1.037E+6	1.222E+6	1.446E+4	7.786E+4	6.8%	0.0%
6.25		4	1.807E+6	1.789E+6	1.824E+6	1.760E+6	1.855E+6	8.562E+3	4.611E+4	2.55%	-57.67%
12.5		4	1.900E+6	1.843E+6	1.956E+6	1.771E+6	2.080E+6	2.752E+4	1.482E+5	7.8%	-65.81%
25		4	2.007E+6	1.977E+6	2.036E+6	1.890E+6	2.052E+6	1.447E+4	7.792E+4	3.88%	-75.13%
50		4	1.917E+6	1.876E+6	1.958E+6	1.781E+6	2.039E+6	2.002E+4	1.078E+5	5.63%	-67.29%
100		4	1.872E+6	1.823E+6	1.921E+6	1.753E+6	2.038E+6	2.412E+4	1.299E+5	6.94%	-63.39%

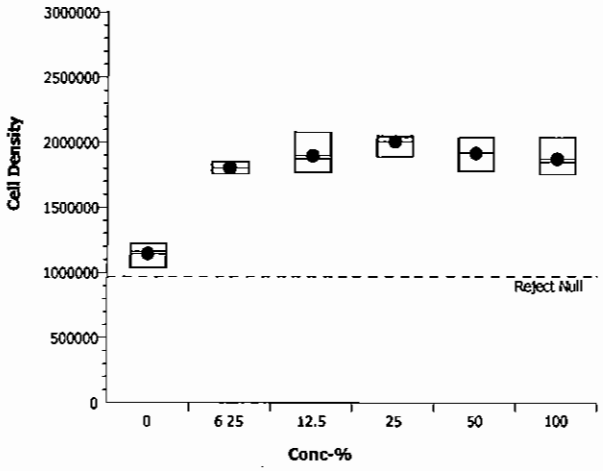
Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

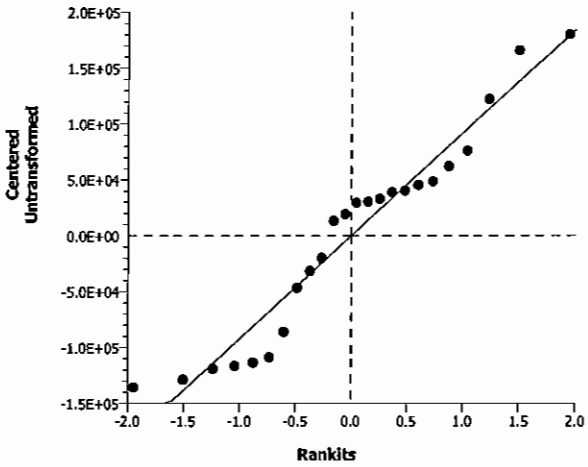
Analysis ID:	17-4768-7484	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:06	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.775E+6	1.836E+6	1.855E+6	1.760E+6
12.5		2.080E+6	1.771E+6	1.962E+6	1.786E+6
25		1.890E+6	2.047E+6	2.052E+6	2.037E+6
50		1.781E+6	1.950E+6	1.897E+6	2.039E+6
100		1.753E+6	2.038E+6	1.786E+6	1.911E+6

Graphics





CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	02-5737-9193	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 12:06	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	19-3239-9784	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:52	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	00-5933-6486	Code:	VCF1010040s	Client:	VCWPD
Sample Date:	06 Oct-10 15:35	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	Source:	Bioassay Report		
Sample Age:	21h (12.5 °C)	Station:	MO-HUE		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	8714458	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.962	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.807E+6	1.760E+6	1.855E+6	8.418E+3	4.611E+4	2.55%	-57.67%
12.5		4	1.900E+6	1.771E+6	2.080E+6	2.706E+4	1.482E+5	7.8%	-65.81%
25		4	2.007E+6	1.890E+6	2.052E+6	1.423E+4	7.792E+4	3.88%	-75.13%
50		4	1.917E+6	1.781E+6	2.039E+6	1.968E+4	1.078E+5	5.63%	-67.29%
100		4	1.872E+6	1.753E+6	2.038E+6	2.372E+4	1.299E+5	6.94%	-63.39%

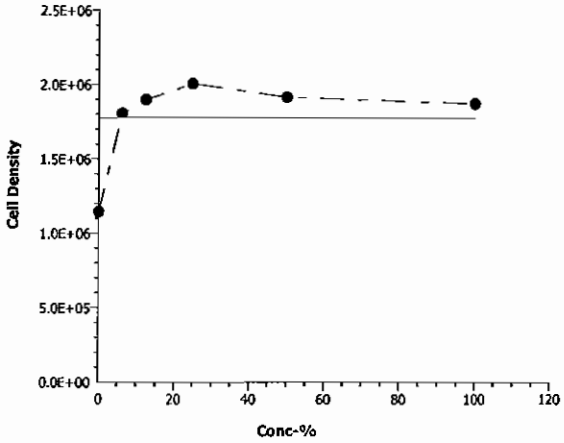
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.775E+6	1.836E+6	1.855E+6	1.760E+6
12.5		2.080E+6	1.771E+6	1.962E+6	1.786E+6
25		1.890E+6	2.047E+6	2.052E+6	2.037E+6
50		1.781E+6	1.950E+6	1.897E+6	2.039E+6
100		1.753E+6	2.038E+6	1.786E+6	1.911E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	02-5737-9193	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:06	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	19-3239-9784	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:52	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	00-5933-6486	**Code:**	VCF1010040s	**Client:**	VCWPD
Sample Date:	06 Oct-10 15:35	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 19:15	**Source:**	Bioassay Report		
Sample Age:	21h (12.5 °C)	**Station:**	MO-HUE		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	68			68	68	0	0	0.0%	0
12.5		1	73			73	73	0	0	0.0%	0
25		1	80			80	80	0	0	0.0%	0
50		1	73			73	73	0	0	0.0%	0
100		1	64			64	64	0	0	0.0%	0
Overall		6	71.17			64	80				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	459.8	458.9	460.7	457	463	0.4314	2.588	0.56%	0
12.5		5	499.2	488.8	509.6	445	520	5.142	30.85	6.18%	0
25		5	591.4	589.8	593	587	598	0.8045	4.827	0.82%	0
50		5	2080	1064	3097	731	7454	500.7	3004	144.4%	0
100		5	1088	1085	1090	1080	1099	1.163	6.979	0.64%	0
Overall		30	859.2			429	7454				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	110			110	110	0	0	0.0%	0
12.5		1	130			130	130	0	0	0.0%	0
25		1	145			145	145	0	0	0.0%	0
50		1	158			158	158	0	0	0.0%	0
100		1	193			193	193	0	0	0.0%	0
Overall		6	141.8			110	193				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	7.8	7.759	7.841	7.7	8	0.02041	0.1225	1.57%	0
12.5		5	7.8	7.759	7.841	7.7	8	0.02041	0.1225	1.57%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.91			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		68
12.5		73
25		80
50		73
100		64

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		463	457	458	459	462
12.5		512	504	515	520	445
25		598	589	595	587	588
50		742	731	742	7454	732
100		1099	1085	1088	1087	1080

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		110
12.5		130
25		145
50		158
100		193

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.7	7.7	7.8	7.8	8
12.5		7.7	7.7	7.8	7.8	8
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 10, 2011

Mr. Arnie Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, EPA-600/R95/136, 1995*. Results were as follows:

CLIENT:	County of Ventura
SAMPLE I.D.:	ME-CC
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.041

CHRONIC SEA URCHIN FERTILIZATION BIOASSAY

NOEC	=	100.00 %
TUc	=	1.00
IC25	=	>100.00 %
IC50	=	>100.00 %

Yours very truly,

p.p. Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Purple Sea Urchin Sperm Cell Fertilization Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	03-7122-1822	Test Type:	Fertilization	Analyst:	
Start Date:	06 Oct-10 12:00	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	06 Oct-10 13:00	Species:	Strongylocentrotus purpuratus	Brine:	Not Applicable
Duration:	60m	Source:	David Gutoff	Age:	
Sample ID:	02-8492-9918	Code:	VCF1010041uf	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:45	Source:	Bioassay Report		
Sample Age:	8h (5.4 °C)	Station:	ME-CC		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
13-9291-4952	Fertilization Rate	100	>100	N/A	2.99%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
20-5998-3186	Fertilization Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
13-9291-4952	Fertilization Rate	Control Resp	0.965	0.7 - NL	Yes	Result Within Limits
20-5998-3186	Fertilization Rate	Control Resp	0.965	0.7 - NL	Yes	Result Within Limits
13-9291-4952	Fertilization Rate	PMSD	0.02992	NL - 0.25	No	Result Within Limits

Fertilization Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.965	0.9602	0.9698	0.95	0.98	0.002357	0.01291	1.34%	0.0%
6.25		4	0.975	0.9728	0.9772	0.97	0.98	0.001054	0.005772	0.59%	-1.04%
12.5		4	0.9675	0.9555	0.9795	0.92	0.99	0.005845	0.03202	3.31%	-0.26%
25		4	0.9725	0.9689	0.9761	0.96	0.98	0.001748	0.009575	0.98%	-0.78%
50		4	0.975	0.9728	0.9772	0.97	0.98	0.001054	0.005772	0.59%	-1.04%
100		4	0.97	0.967	0.973	0.96	0.98	0.001491	0.008165	0.84%	-0.52%

Fertilization Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.98	0.97	0.95	0.96
6.25		0.97	0.98	0.98	0.97
12.5		0.92	0.99	0.98	0.98
25		0.97	0.98	0.98	0.96
50		0.97	0.98	0.98	0.97
100		0.96	0.97	0.97	0.98

Purple Sea Urchin Sperm Cell Fertilization Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	13-9291-4952	Endpoint:	Fertilization Rate	CETIS Version:	CETISv1.7.0
Analyzed:	06 Dec-10 11:28	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	03-7122-1822	Test Type:	Fertilization	Analyst:	
Start Date:	06 Oct-10 12:00	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	06 Oct-10 13:00	Species:	Strongylocentrotus purpuratus	Brine:	Not Applicable
Duration:	60m	Source:	David Gutoff	Age:	
Sample ID:	02-8492-9918	Code:	VCF1010041uf	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:45	Source:	Bioassay Report		
Sample Age:	8h (5.4 °C)	Station:	ME-CC		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	2.99%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-0.9561	2.407	0.0698	0.9806	Non-Significant Effect
		12.5	-0.6219	2.407	0.0698	0.9546	Non-Significant Effect
		25	-0.7209	2.407	0.0698	0.9644	Non-Significant Effect
		50	-0.9561	2.407	0.0698	0.9806	Non-Significant Effect
		100	-0.4434	2.407	0.0698	0.9314	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.965	0.7 - NL	Yes	Result Within Limits
PMSD	0.02992	NL - 0.25	No	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.282	2.802	0.0035	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.002191406	0.0004382812	5	0.2606	0.9287	Non-Significant Effect
Error	0.0302681	0.001681561	18			
Total	0.0324595	0.002119842	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	10.11	15.09	0.0723	Equal Variances
Variances	Mod Levene Equality of Variance	0.6505	4.248	0.6649	Equal Variances
Distribution	Shapiro-Wilk Normality	0.8944		0.0164	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.162	0.2056	0.1033	Normal Distribution
Distribution	D'Agostino Skewness	2.632	2.576	0.0085	Non-normal Distribution
Distribution	D'Agostino Kurtosis	2.693	2.576	0.0071	Non-normal Distribution
Distribution	D'Agostino Omnibus	14.18	9.21	0.0008	Non-normal Distribution

Purple Sea Urchin Sperm Cell Fertilization Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-9291-4952	**Endpoint:**	Fertilization Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Dec-10 11:28	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Fertilization Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.965	0.9601	0.9699	0.95	0.98	0.002397	0.01291	1.34%	0.0%
6.25		4	0.975	0.9728	0.9772	0.97	0.98	0.001072	0.005772	0.59%	-1.04%
12.5		4	0.9675	0.9553	0.9797	0.92	0.99	0.005945	0.03202	3.31%	-0.26%
25		4	0.9725	0.9689	0.9761	0.96	0.98	0.001778	0.009575	0.98%	-0.78%
50		4	0.975	0.9728	0.9772	0.97	0.98	0.001072	0.005772	0.59%	-1.04%
100		4	0.97	0.9669	0.9731	0.96	0.98	0.001516	0.008165	0.84%	-0.52%

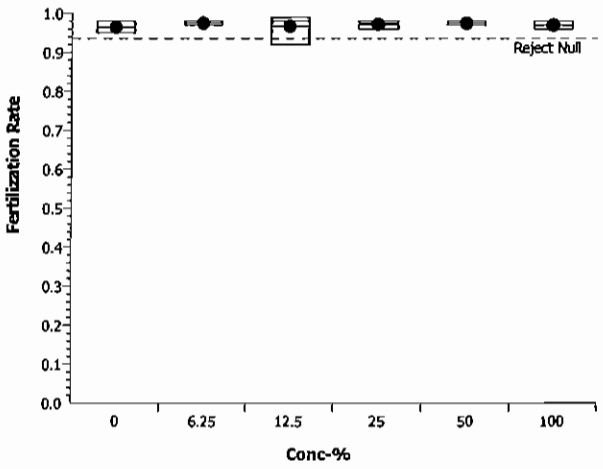
Angular (Corrected) Transformed Summary

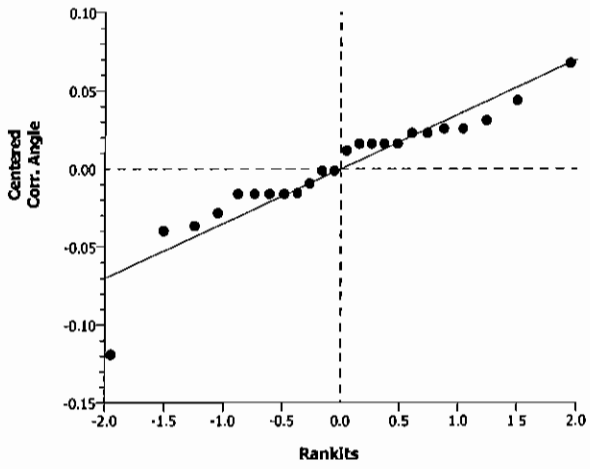
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.385	1.371	1.399	1.345	1.429	0.006682	0.03598	2.6%	0.0%
6.25		4	1.413	1.406	1.42	1.397	1.429	0.003451	0.01859	1.32%	-2.0%
12.5		4	1.403	1.372	1.434	1.284	1.471	0.01519	0.08179	5.83%	-1.3%
25		4	1.406	1.395	1.417	1.369	1.429	0.00533	0.02871	2.04%	-1.51%
50		4	1.413	1.406	1.42	1.397	1.429	0.003451	0.01859	1.32%	-2.0%
100		4	1.398	1.389	1.407	1.369	1.429	0.004516	0.02432	1.74%	-0.93%

Fertilization Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.98	0.97	0.95	0.96
6.25		0.97	0.98	0.98	0.97
12.5		0.92	0.99	0.98	0.98
25		0.97	0.98	0.98	0.96
50		0.97	0.98	0.98	0.97
100		0.96	0.97	0.97	0.98

Graphics





CETIS Analytical Report

Purple Sea Urchin Sperm Cell Fertilization Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	20-5998-3186	Endpoint:	Fertilization Rate	CETIS Version:	CETISv1.7.0
Analyzed:	06 Dec-10 11:28	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	03-7122-1822	Test Type:	Fertilization	Analyst:	
Start Date:	06 Oct-10 12:00	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	06 Oct-10 13:00	Species:	Strongylocentrotus purpuratus	Brine:	Not Applicable
Duration:	60m	Source:	David Gutoff	Age:	
Sample ID:	02-8492-9918	Code:	VCF1010041uf	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:45	Source:	Bioassay Report		
Sample Age:	8h (5.4 °C)	Station:	ME-CC		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.965	0.7 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

Fertilization Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.965	0.95	0.98	0.002357	0.01291	1.34%	0.0%	386	400
6.25		4	0.975	0.97	0.98	0.001054	0.005772	0.59%	-1.04%	390	400
12.5		4	0.9675	0.92	0.99	0.005845	0.03202	3.31%	-0.26%	387	400
25		4	0.9725	0.96	0.98	0.001748	0.009575	0.98%	-0.78%	389	400
50		4	0.975	0.97	0.98	0.001054	0.005772	0.59%	-1.04%	390	400
100		4	0.97	0.96	0.98	0.001491	0.008165	0.84%	-0.52%	388	400

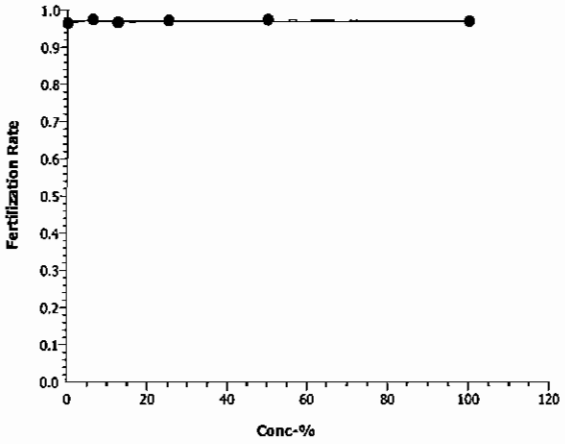
Fertilization Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.98	0.97	0.95	0.96
6.25		0.97	0.98	0.98	0.97
12.5		0.92	0.99	0.98	0.98
25		0.97	0.98	0.98	0.96
50		0.97	0.98	0.98	0.97
100		0.96	0.97	0.97	0.98

Purple Sea Urchin Sperm Cell Fertilization Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	20-5998-3186	**Endpoint:**	Fertilization Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Dec-10 11:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Purple Sea Urchin Sperm Cell Fertilization Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	03-7122-1822	**Test Type:**	Fertilization	**Analyst:**	
Start Date:	06 Oct-10 12:00	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	06 Oct-10 13:00	**Species:**	Strongylocentrotus purpuratus	**Brine:**	Not Applicable
Duration:	60m	**Source:**	David Gutoff	**Age:**	
Sample ID:	02-8492-9918	**Code:**	VCF1010041uf	**Client:**	VCWPD
Sample Date:	06 Oct-10 04:30	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 07:45	**Source:**	Bioassay Report		
Sample Age:	8h (5.4 °C)	**Station:**	ME-CC		

Parameter Acceptability

Parameter	Min	Max	Acceptability Limits	Overlap	Decision
Salinity-ppt	34	34	32 - 36	Yes	Results Within Limits
Temperature-°C	14.8	14.9	11 - 13	Yes	Results Above Limit

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	6.15	5.839	6.461	5.5	6.8	0.1532	0.9192	14.95%	0
6.25		2	6.15	5.887	6.413	5.6	6.7	0.1296	0.7778	12.65%	0
12.5		2	6.25	5.987	6.513	5.7	6.8	0.1296	0.7778	12.45%	0
25		2	6.35	6.087	6.613	5.8	6.9	0.1296	0.7778	12.25%	0
50		2	6.35	6.135	6.565	5.9	6.8	0.1061	0.6364	10.02%	0
100		2	6.35	6.135	6.565	5.9	6.8	0.1061	0.6364	10.02%	0
Overall		12	6.267			5.5	6.9				0 (0%)

Total Ammonia (N)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
6.25		1	0			0	0	0	0		0
12.5		1	0			0	0	0	0		0
25		1	0			0	0	0	0		0
50		1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		6	0			0	0				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	7.9	7.899	7.901	7.9	7.9	0	0	0.0%	0
6.25		2	7.9	7.899	7.901	7.9	7.9	0	0	0.0%	0
12.5		2	8	8	8	8	8	0	0	0.0%	0
25		2	8	8	8	8	8	0	0	0.0%	0
50		2	8.1	8.099	8.101	8.1	8.1	0	0	0.0%	0
100		2	8.15	8.126	8.174	8.1	8.2	0.01179	0.07073	0.87%	0
Overall		12	8.008			7.9	8.2				0 (0%)

Salinity-ppt

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	34	34	34	34	34	0	0	0.0%	0
6.25		2	34	34	34	34	34	0	0	0.0%	0
12.5		2	34	34	34	34	34	0	0	0.0%	0
25		2	34	34	34	34	34	0	0	0.0%	0
50		2	34	34	34	34	34	0	0	0.0%	0
100		2	34	34	34	34	34	0	0	0.0%	0
Overall		12	34			34	34				0 (0%)

Purple Sea Urchin Sperm Cell Fertilization Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
6.25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
12.5		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
50		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
100		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
Overall		12	14.85			14.8	14.9				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2
0	Negative Contr	6.8	5.5
6.25		6.7	5.6
12.5		6.8	5.7
25		6.9	5.8
50		6.8	5.9
100		6.8	5.9

Total Ammonia (N)-mg/L

Conc-%	Control Type	1
0	Negative Contr	0
6.25		0
12.5		0
25		0
50		0
100		0

pH-Units

Conc-%	Control Type	1	2
0	Negative Contr	7.9	7.9
6.25		7.9	7.9
12.5		8	8
25		8	8
50		8.1	8.1
100		8.2	8.1

Salinity-ppt

Conc-%	Control Type	1	2
0	Negative Contr	34	34
6.25		34	34
12.5		34	34
25		34	34
50		34	34
100		34	34

Temperature-°C

Conc-%	Control Type	1	2
0	Negative Contr	14.8	14.9
6.25		14.8	14.9
12.5		14.8	14.9
25		14.8	14.9
50		14.8	14.9
100		14.8	14.9

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receving Waters to West Coast Estuarine Organisms, EPA/R-95/136.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	ME-CC
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.041

CHRONIC KELP GERMINATION AND GROWTH BIOASSAY

Germination	NOEC	=	100.00
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %
Tube Length	NOEC	=	100.00 %
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Macrocystis Germination and Germ Tube Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	19-2361-1825	Test Type:	Growth-Germination	Analyst:	
Start Date:	06 Oct-10 14:15	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	08 Oct-10 14:15	Species:	Macrocystis pyrifera	Brine:	Not Applicable
Duration:	48h	Source:	David Gutoff	Age:	
Sample ID:	17-0133-3872	Code:	VCF1010041k	Client:	VCWPD
Sample Date:	06 Oct-10 02:15	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	12h (5.4 °C)	Station:	ME-CC		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
08-9177-4781	Germination Rate	100	>100	N/A	2.59%	1	Dunnett's Multiple Comparison Test
15-3421-9567	Mean Length	100	>100	N/A	5.41%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
17-8470-8665	Germination Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
14-6655-0688	Mean Length	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
08-9177-4781	Germination Rate	Control Resp	0.92	0.7 - NL	Yes	Result Within Limits
17-8470-8665	Germination Rate	Control Resp	0.92	0.7 - NL	Yes	Result Within Limits
14-6655-0688	Mean Length	Control Resp	12.76	10 - NL	Yes	Result Within Limits
15-3421-9567	Mean Length	Control Resp	12.76	10 - NL	Yes	Result Within Limits
08-9177-4781	Germination Rate	PMSD	0.02593	NL - 0.2	No	Result Within Limits
15-3421-9567	Mean Length	PMSD	0.05411	NL - 0.2	No	Result Within Limits

Germination Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	0.92	0.9141	0.9259	0.9	0.94	0.002887	0.01581	1.72%	0.0%
6.25		5	0.932	0.9271	0.9369	0.92	0.95	0.00238	0.01304	1.4%	-1.3%
12.5		5	0.928	0.9249	0.9311	0.92	0.94	0.001528	0.008367	0.9%	-0.87%
25		5	0.928	0.9239	0.9321	0.91	0.94	0.002	0.01095	1.18%	-0.87%
50		5	0.924	0.9197	0.9283	0.91	0.94	0.002082	0.0114	1.23%	-0.43%
100		5	0.952	0.9453	0.9587	0.93	0.98	0.003266	0.01789	1.88%	-3.48%

Mean Length Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	12.76	12.63	12.89	12.2	13	0.06137	0.3362	2.63%	0.0%
6.25		5	13.52	13.28	13.76	12.9	14.3	0.1172	0.6419	4.75%	-5.96%
12.5		5	13.12	13.02	13.22	12.9	13.5	0.04899	0.2683	2.05%	-2.82%
25		5	13.24	12.99	13.49	12.7	14.4	0.1215	0.6656	5.03%	-3.76%
50		5	13	12.85	13.15	12.7	13.7	0.07528	0.4123	3.17%	-1.88%
100		5	13.02	12.92	13.12	12.8	13.4	0.04899	0.2683	2.06%	-2.04%

Macrocystis Germination and Germ Tube Growth Test Aquatic Bioassay & Consulting Labs, Inc.

Germination Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.9	0.92	0.93	0.94	0.91
6.25		0.94	0.92	0.92	0.95	0.93
12.5		0.92	0.93	0.92	0.93	0.94
25		0.91	0.94	0.93	0.93	0.93
50		0.91	0.92	0.94	0.92	0.93
100		0.95	0.93	0.98	0.95	0.95

Mean Length Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	12.2	13	12.7	12.9	13
6.25		13.3	13	12.9	14.3	14.1
12.5		13.5	13	12.9	13.3	12.9
25		13.1	12.7	13	14.4	13
50		12.7	13	12.9	12.7	13.7
100		13.2	12.8	12.9	12.8	13.4

CETIS Analytical Report

Macrocystis Germination and Germ Tube Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	15-3421-9567	**Endpoint:**	Mean Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	16 Dec-10 10:35	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	19-2361-1825	**Test Type:**	Growth-Germination	**Analyst:**	
Start Date:	06 Oct-10 14:15	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	08 Oct-10 14:15	**Species:**	Macrocystis pyrifera	**Brine:**	Not Applicable
Duration:	48h	**Source:**	David Gutoff	**Age:**	
Sample ID:	17-0133-3872	**Code:**	VCF1010041k	**Client:**	VCWPD
Sample Date:	06 Oct-10 02:15	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	**Source:**	Bioassay Report		
Sample Age:	12h (5.4 °C)	**Station:**	ME-CC		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	5.41%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-2.6	2.362	0.6904	0.9999	Non-Significant Effect
		12.5	-1.231	2.362	0.6904	0.9914	Non-Significant Effect
		25	-1.642	2.362	0.6904	0.9976	Non-Significant Effect
		50	-0.8209	2.362	0.6904	0.9729	Non-Significant Effect
		100	-0.8894	2.362	0.6904	0.9774	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	12.76	10 - NL	Yes	Result Within Limits
PMSD	0.05411	NL - 0.2	No	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.759	2.908	0.0947	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	1.639001	0.3278002	5	1.534	0.2167	Non-Significant Effect
Error	5.128	0.2136667	24			
Total	6.767001	0.5414669	29			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	6.035	15.09	0.3028	Equal Variances
Variances	Mod Levene Equality of Variance	0.6791	4.248	0.6450	Equal Variances
Distribution	Shapiro-Wilk Normality	0.928		0.0435	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1607	0.1853	0.0466	Normal Distribution
Distribution	D'Agostino Skewness	2.121	2.576	0.0339	Normal Distribution
Distribution	D'Agostino Kurtosis	1.052	2.576	0.2929	Normal Distribution
Distribution	D'Agostino Omnibus	5.604	9.21	0.0607	Normal Distribution

Mean Length Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	12.76	12.63	12.89	12.2	13	0.06242	0.3362	2.63%	0.0%
6.25		5	13.52	13.28	13.76	12.9	14.3	0.1192	0.6419	4.75%	-5.96%
12.5		5	13.12	13.02	13.22	12.9	13.5	0.04983	0.2683	2.05%	-2.82%
25		5	13.24	12.99	13.49	12.7	14.4	0.1236	0.6656	5.03%	-3.76%
50		5	13	12.84	13.16	12.7	13.7	0.07656	0.4123	3.17%	-1.88%
100		5	13.02	12.92	13.12	12.8	13.4	0.04983	0.2683	2.06%	-2.04%

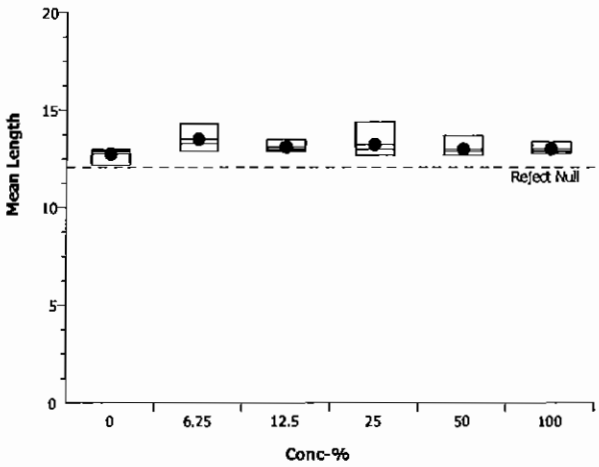
Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

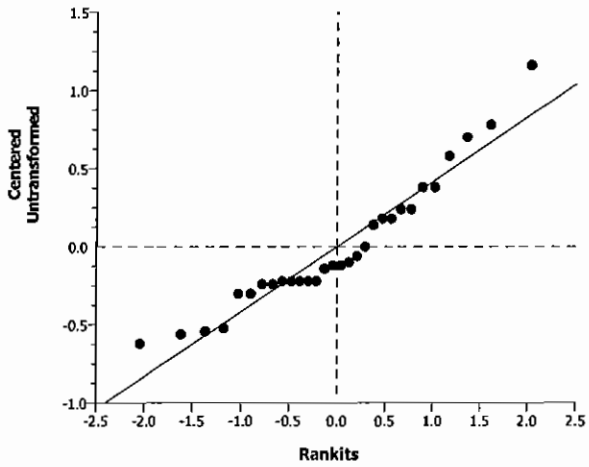
Analysis ID:	15-3421-9567	**Endpoint:**	Mean Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	16 Dec-10 10:35	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Length Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	12.2	13	12.7	12.9	13
6.25		13.3	13	12.9	14.3	14.1
12.5		13.5	13	12.9	13.3	12.9
25		13.1	12.7	13	14.4	13
50		12.7	13	12.9	12.7	13.7
100		13.2	12.8	12.9	12.8	13.4

Graphics





Macrocystis Germination and Germ Tube Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	08-9177-4781	Endpoint:	Germination Rate	CETIS Version:	CETISv1.7.0
Analyzed:	16 Dec-10 10:34	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	19-2361-1825	Test Type:	Growth-Germination	Analyst:	
Start Date:	06 Oct-10 14:15	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	08 Oct-10 14:15	Species:	Macrocystis pyrifera	Brine:	Not Applicable
Duration:	48h	Source:	David Gutoff	Age:	
Sample ID:	17-0133-3872	Code:	VCF1010041k	Client:	VCWPD
Sample Date:	06 Oct-10 02:15	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	12h (5.4 °C)	Station:	ME-CC		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	2.59%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-1.271	2.362	0.04243	0.9924	Non-Significant Effect
		12.5	-0.8006	2.362	0.04243	0.9714	Non-Significant Effect
		25	-0.8124	2.362	0.04243	0.9723	Non-Significant Effect
		50	-0.3895	2.362	0.04243	0.9231	Non-Significant Effect
		100	-3.81	2.362	0.04243	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.92	0.7 - NL	Yes	Result Within Limits
PMSD	0.02593	NL - 0.2	No	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.915	2.908	0.0485	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.01488011	0.002976022	5	3.688	0.0129	Significant Effect
Error	0.01936908	0.0008070448	24			
Total	0.03424919	0.003783067	29			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.032	15.09	0.4120	Equal Variances
Variances	Mod Levene Equality of Variance	0.4865	4.248	0.7819	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9658		0.4317	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1456	0.1853	0.1042	Normal Distribution
Distribution	D'Agostino Skewness	1.655	2.576	0.0980	Normal Distribution
Distribution	D'Agostino Kurtosis	1.484	2.576	0.1378	Normal Distribution
Distribution	D'Agostino Omnibus	4.94	9.21	0.0846	Normal Distribution

Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	08-9177-4781	**Endpoint:**	Germination Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	16 Dec-10 10:34	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Germination Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	0.92	0.914	0.926	0.9	0.94	0.002936	0.01581	1.72%	0.0%
6.25		5	0.932	0.927	0.937	0.92	0.95	0.002421	0.01304	1.4%	-1.3%
12.5		5	0.928	0.9248	0.9312	0.92	0.94	0.001553	0.008366	0.9%	-0.87%
25		5	0.928	0.9238	0.9322	0.91	0.94	0.002034	0.01095	1.18%	-0.87%
50		5	0.924	0.9197	0.9283	0.91	0.94	0.002117	0.0114	1.23%	-0.43%
100		5	0.952	0.9452	0.9588	0.93	0.98	0.003322	0.01789	1.88%	-3.48%

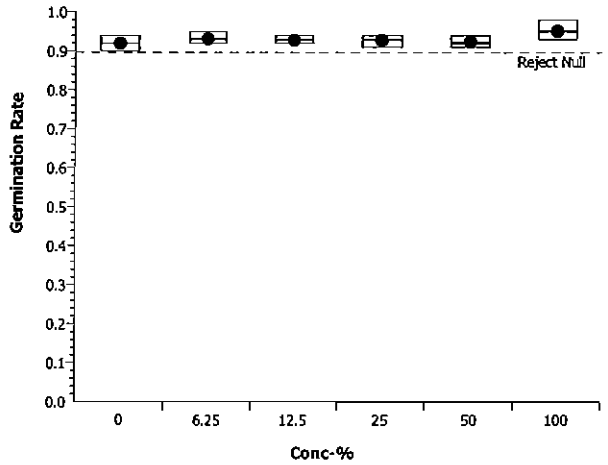
Angular (Corrected) Transformed Summary

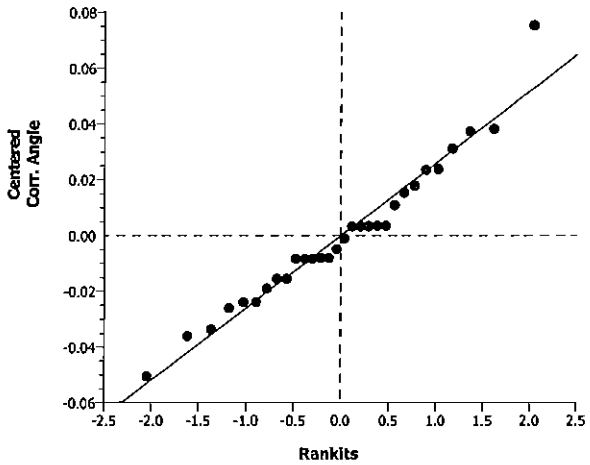
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	5	1.285	1.274	1.296	1.249	1.323	0.00545	0.02935	2.28%	0.0%
6.25		5	1.308	1.298	1.318	1.284	1.345	0.004911	0.02645	2.02%	-1.78%
12.5		5	1.299	1.293	1.306	1.284	1.323	0.003038	0.01636	1.26%	-1.12%
25		5	1.3	1.292	1.308	1.266	1.323	0.003851	0.02074	1.6%	-1.14%
50		5	1.292	1.284	1.3	1.266	1.323	0.004048	0.0218	1.69%	-0.54%
100		5	1.354	1.336	1.371	1.303	1.429	0.008527	0.04592	3.39%	-5.33%

Germination Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.9	0.92	0.93	0.94	0.91
6.25		0.94	0.92	0.92	0.95	0.93
12.5		0.92	0.93	0.92	0.93	0.94
25		0.91	0.94	0.93	0.93	0.93
50		0.91	0.92	0.94	0.92	0.93
100		0.95	0.93	0.98	0.95	0.95

Graphics





CETIS Analytical Report

Macrocystis Germination and Germ Tube Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	14-6655-0688	Endpoint:	Mean Length	CETIS Version:	CETISv1.7.0
Analyzed:	16 Dec-10 10:35	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	19-2361-1825	Test Type:	Growth-Germination	Analyst:	
Start Date:	06 Oct-10 14:15	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	08 Oct-10 14:15	Species:	Macrocystis pyrifera	Brine:	Not Applicable
Duration:	48h	Source:	David Gutoff	Age:	
Sample ID:	17-0133-3872	Code:	VCF1010041k	Client:	VCWPD
Sample Date:	06 Oct-10 02:15	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	12h (5.4 °C)	Station:	ME-CC		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	12.76	10 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.759	2.908	0.0947	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Length Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	12.76	12.2	13	0.06137	0.3362	2.63%	0.0%
6.25		5	13.52	12.9	14.3	0.1172	0.6419	4.75%	-5.96%
12.5		5	13.12	12.9	13.5	0.04899	0.2683	2.05%	-2.82%
25		5	13.24	12.7	14.4	0.1215	0.6656	5.03%	-3.76%
50		5	13	12.7	13.7	0.07528	0.4123	3.17%	-1.88%
100		5	13.02	12.8	13.4	0.04899	0.2683	2.06%	-2.04%

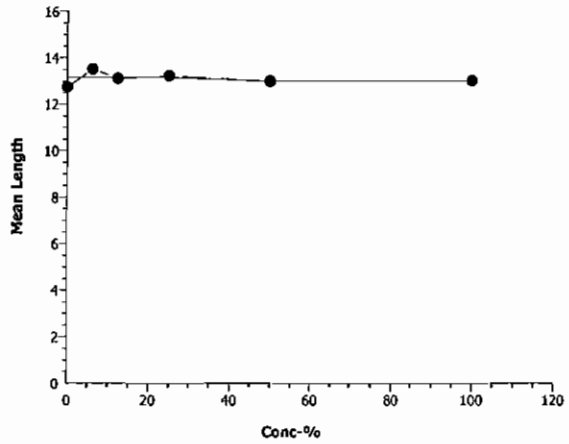
Mean Length Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	12.2	13	12.7	12.9	13
6.25		13.3	13	12.9	14.3	14.1
12.5		13.5	13	12.9	13.3	12.9
25		13.1	12.7	13	14.4	13
50		12.7	13	12.9	12.7	13.7
100		13.2	12.8	12.9	12.8	13.4

Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-6655-0688	**Endpoint:**	Mean Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	16 Dec-10 10:35	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	17-8470-8665	**Endpoint:**	Germination Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	16 Dec-10 10:34	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	19-2361-1825	**Test Type:**	Growth-Germination	**Analyst:**	
Start Date:	06 Oct-10 14:15	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	08 Oct-10 14:15	**Species:**	Macrocystis pyrifera	**Brine:**	Not Applicable
Duration:	48h	**Source:**	David Gutoff	**Age:**	
Sample ID:	17-0133-3872	**Code:**	VCF1010041k	**Client:**	VCWPD
Sample Date:	06 Oct-10 02:15	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	**Source:**	Bioassay Report		
Sample Age:	12h (5.4 °C)	**Station:**	ME-CC		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.92	0.7 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

Germination Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	5	0.92	0.9	0.94	0.002887	0.01581	1.72%	0.0%	460	500
6.25		5	0.932	0.92	0.95	0.00238	0.01304	1.4%	-1.3%	466	500
12.5		5	0.928	0.92	0.94	0.001527	0.008366	0.9%	-0.87%	464	500
25		5	0.928	0.91	0.94	0.002	0.01095	1.18%	-0.87%	464	500
50		5	0.924	0.91	0.94	0.002082	0.0114	1.23%	-0.43%	462	500
100		5	0.952	0.93	0.98	0.003266	0.01789	1.88%	-3.48%	476	500

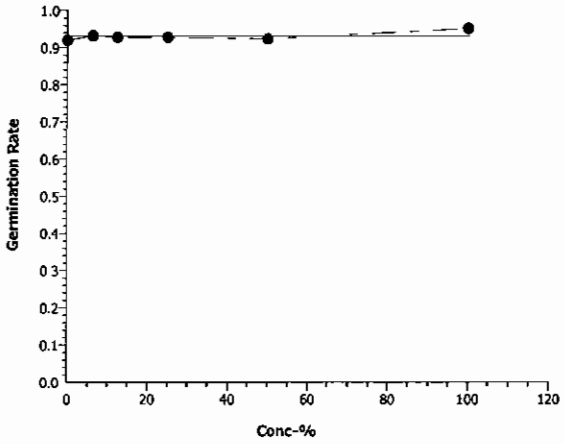
Germination Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.9	0.92	0.93	0.94	0.91
6.25		0.94	0.92	0.92	0.95	0.93
12.5		0.92	0.93	0.92	0.93	0.94
25		0.91	0.94	0.93	0.93	0.93
50		0.91	0.92	0.94	0.92	0.93
100		0.95	0.93	0.98	0.95	0.95

Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	17-8470-8665	**Endpoint:**	Germination Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	16 Dec-10 10:34	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Macrocystis Germination and Germ Tube Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	19-2361-1825	**Test Type:**	Growth-Germination	**Analyst:**	
Start Date:	06 Oct-10 14:15	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	08 Oct-10 14:15	**Species:**	Macrocystis pyrifera	**Brine:**	Not Applicable
Duration:	48h	**Source:**	David Gutoff	**Age:**	
Sample ID:	17-0133-3872	**Code:**	VCF1010041k	**Client:**	VCWPD
Sample Date:	06 Oct-10 02:15	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	**Source:**	Bioassay Report		
Sample Age:	12h (5.4 °C)	**Station:**	ME-CC		

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	6.15	5.839	6.461	5.5	6.8	0.1532	0.9192	14.95%	0
6.25		2	6.15	5.887	6.413	5.6	6.7	0.1296	0.7778	12.65%	0
12.5		2	6.15	5.839	6.461	5.5	6.8	0.1532	0.9192	14.95%	0
25		2	6.2	5.913	6.487	5.6	6.8	0.1414	0.8485	13.69%	0
50		2	6.15	5.839	6.461	5.5	6.8	0.1532	0.9192	14.95%	0
100		2	6.15	5.839	6.461	5.5	6.8	0.1532	0.9192	14.95%	0
Overall		12	6.158			5.5	6.8				0 (0%)

Total Ammonia (N)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	7.9	7.899	7.901	7.9	7.9	0	0	0.0%	0
6.25		2	7.9	7.899	7.901	7.9	7.9	0	0	0.0%	0
12.5		2	7.85	7.826	7.874	7.8	7.9	0.01178	0.07071	0.9%	0
25		2	7.85	7.826	7.874	7.8	7.9	0.01178	0.07071	0.9%	0
50		2	7.85	7.826	7.874	7.8	7.9	0.01178	0.07071	0.9%	0
100		2	7.85	7.826	7.874	7.8	7.9	0.01178	0.07071	0.9%	0
Overall		12	7.867			7.8	7.9				0 (0%)

Salinity-ppt

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	34	34	34	34	34	0	0	0.0%	0
6.25		2	34	34	34	34	34	0	0	0.0%	0
12.5		2	34	34	34	34	34	0	0	0.0%	0
25		2	34	34	34	34	34	0	0	0.0%	0
50		2	34	34	34	34	34	0	0	0.0%	0
100		2	34	34	34	34	34	0	0	0.0%	0
Overall		12	34			34	34				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
6.25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
12.5		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
50		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
100		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
Overall		12	14.85			14.8	14.9				0 (0%)

Macrocystis Germination and Germ Tube Growth Test **Aquatic Bioassay & Consulting Labs, Inc.**

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2
0	Negative Contr	6.8	5.5
6.25		6.7	5.6
12.5		6.8	5.5
25		6.8	5.6
50		6.8	5.5
100		6.8	5.5

Total Ammonia (N)-mg/L

Conc-%	Control Type	1
0	Negative Contr	0
100		0

pH-Units

Conc-%	Control Type	1	2
0	Negative Contr	7.9	7.9
6.25		7.9	7.9
12.5		7.8	7.9
25		7.8	7.9
50		7.8	7.9
100		7.8	7.9

Salinity-ppt

Conc-%	Control Type	1	2
0	Negative Contr	34	34
6.25		34	34
12.5		34	34
25		34	34
50		34	34
100		34	34

Temperature-°C

Conc-%	Control Type	1	2
0	Negative Contr	14.8	14.9
6.25		14.8	14.9
12.5		14.8	14.9
25		14.8	14.9
50		14.8	14.9
100		14.8	14.9

aquatic bioassay & consulting laboratories, inc

January 31, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receving Waters to West Coast Estuarine Organisms, EPA/821/R-02-014.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-CC
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.041

CHRONIC MENIDIA SURVIVAL AND GROWTH BIOASSAY

Survival	NOEC	=	100.00
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %
Biomass	NOEC	=	100.00 %
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Inland Silverside 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	17-9215-5628	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:21	**Protocol:**	EPA/821/R-02-014 (2002)	**Diluent:**	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	**Species:**	Menidia beryllina	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	7-10
Sample ID:	13-0457-4870	**Code:**	VCF1010041m	**Client:**	FGL Environmental
Sample Date:	06 Oct-10 04:30	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	**Source:**	Bioassay Report		
Sample Age:	35h (13.5 °C)	**Station:**	MO-CC		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
02-5557-2420	7d Survival Rate	100	>100	N/A	34.05%	1	Dunnett's Multiple Comparison Test
12-2143-3207	Mean Dry Biomass-mg	100	>100	N/A	24.75%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
15-9748-1854	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
14-0112-1005	Mean Dry Biomass-mg	IC5	2.525	1.045	N/A	39.6	Linear Interpolation (ICPIN)
		IC10	5.05	2.09	N/A	19.8	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
02-5557-2420	7d Survival Rate	Control Resp	0.825	0.8 - NL	Yes	Result Within Limits
15-9748-1854	7d Survival Rate	Control Resp	0.825	0.8 - NL	Yes	Result Within Limits
12-2143-3207	Mean Dry Biomass-mg	Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits
14-0112-1005	Mean Dry Biomass-mg	Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits
12-2143-3207	Mean Dry Biomass-mg	PMSD	0.2475	0.11 - 0.28	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.825	0.8063	0.8437	0.8	0.9	0.009129	0.05	6.06%	0.0%
6.25		4	0.625	0.548	0.702	0.4	0.9	0.03764	0.2062	32.98%	24.24%
12.5		4	0.7	0.6193	0.7807	0.5	1	0.03944	0.216	30.86%	15.15%
25		4	0.875	0.828	0.922	0.7	1	0.02297	0.1258	14.38%	-6.06%
50		4	0.875	0.8392	0.9108	0.8	1	0.01748	0.09574	10.94%	-6.06%
100		4	0.9	0.8695	0.9305	0.8	1	0.01491	0.08165	9.07%	-9.09%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.7135	0.69	0.737	0.638	0.792	0.01149	0.06292	8.82%	0.0%
6.25		4	0.6162	0.5644	0.6681	0.486	0.762	0.02533	0.1387	22.51%	13.63%
12.5		4	0.4918	0.4668	0.5167	0.419	0.58	0.0122	0.06684	13.59%	31.08%
25		4	0.682	0.6365	0.7275	0.587	0.844	0.02226	0.1219	17.88%	4.42%
50		4	0.6727	0.6536	0.6919	0.608	0.72	0.009356	0.05125	7.62%	5.71%
100		4	0.6632	0.6112	0.7153	0.542	0.862	0.02543	0.1393	21.0%	7.04%

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8	0.9	0.8
6.25		0.6	0.9	0.4	0.6
12.5		0.7	1	0.5	0.6
25		1	0.7	0.9	0.9
50		0.9	0.8	0.8	1
100		0.9	0.9	0.8	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.638	0.71	0.792	0.714
6.25		0.51	0.762	0.486	0.707
12.5		0.474	0.58	0.419	0.494
25		0.589	0.587	0.844	0.708
50		0.707	0.656	0.608	0.72
100		0.602	0.542	0.647	0.862

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	12-2143-3207	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	10 Jan-11 14:52	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	17-9215-5628	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:21	Protocol:	EPA/821/R-02-014 (2002)	Diluent:	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	Species:	Menidia beryllina	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	7-10
Sample ID:	13-0457-4870	Code:	VCF1010041m	Client:	FGL Environmental
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	35h (13.5 °C)	Station:	MO-CC		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	24.75%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	1.326	2.407	0.1766	0.2883	Non-Significant Effect
		12.5*	3.023	2.407	0.1766	0.0147	Significant Effect
		25	0.4294	2.407	0.1766	0.6777	Non-Significant Effect
		50	0.5555	2.407	0.1766	0.6232	Non-Significant Effect
		100	0.6851	2.407	0.1766	0.5648	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits
PMSD	0.2475	0.11 - 0.28	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.166	2.802	0.5585	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.1252858	0.02505716	5	2.328	0.0850	Non-Significant Effect
Error	0.1937	0.01076111	18			
Total	0.3189858	0.03581828	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	4.769	15.09	0.4447	Equal Variances
Variances	Mod Levene Equality of Variance	1.393	4.248	0.2735	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9511		0.2862	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1228	0.2056	0.4585	Normal Distribution
Distribution	D'Agostino Skewness	1.22	2.576	0.2225	Normal Distribution
Distribution	D'Agostino Kurtosis	0.3714	2.576	0.7103	Normal Distribution
Distribution	D'Agostino Omnibus	1.626	9.21	0.4435	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.7135	0.6896	0.7374	0.638	0.792	0.01168	0.06292	8.82%	0.0%
6.25		4	0.6162	0.5635	0.669	0.486	0.762	0.02576	0.1387	22.51%	13.63%
12.5		4	0.4918	0.4663	0.5172	0.419	0.58	0.01241	0.06684	13.59%	31.08%
25		4	0.682	0.6356	0.7284	0.587	0.844	0.02264	0.1219	17.88%	4.42%
50		4	0.6727	0.6533	0.6922	0.608	0.72	0.009516	0.05125	7.62%	5.71%
100		4	0.6632	0.6103	0.7162	0.542	0.862	0.02587	0.1393	21.0%	7.04%

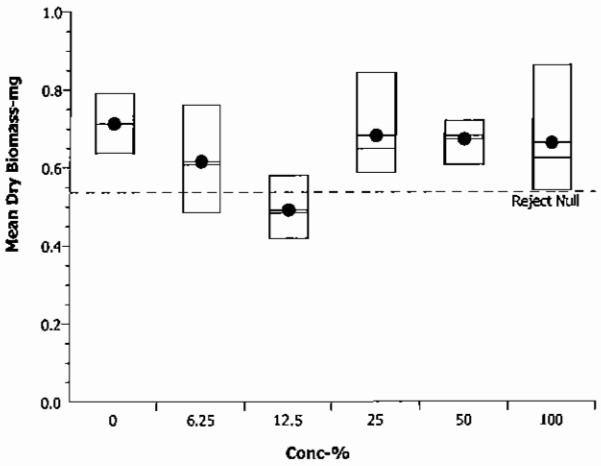
Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

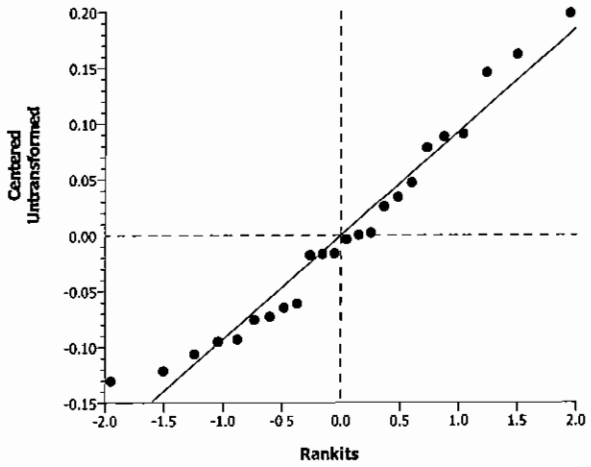
Analysis ID:	12-2143-3207	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 14:52	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.638	0.71	0.792	0.714
6.25		0.51	0.762	0.486	0.707
12.5		0.474	0.58	0.419	0.494
25		0.589	0.587	0.844	0.708
50		0.707	0.656	0.608	0.72
100		0.602	0.542	0.647	0.862

Graphics





Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	02-5557-2420	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	10 Jan-11 14:52	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	17-9215-5628	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:21	Protocol:	EPA/821/R-02-014 (2002)	Diluent:	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	Species:	Menidia beryllina	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	7-10
Sample ID:	13-0457-4870	Code:	VCF1010041m	Client:	FGL Environmental
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	35h (13.5 °C)	Station:	MO-CC		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	34.05%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	1.662	2.407	0.3131	0.1799	Non-Significant Effect
		12.5	0.9531	2.407	0.3131	0.4427	Non-Significant Effect
		25	-0.6358	2.407	0.3131	0.9561	Non-Significant Effect
		50	-0.586	2.407	0.3131	0.9506	Non-Significant Effect
		100	-0.8588	2.407	0.3131	0.9749	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.825	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.418	2.802	0.2407	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.3456046	0.06912091	5	2.043	0.1207	Non-Significant Effect
Error	0.6089137	0.03382854	18			
Total	0.9545183	0.1029495	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.235	15.09	0.3879	Equal Variances
Variances	Mod Levene Equality of Variance	0.5863	4.248	0.7104	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9382		0.1485	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1764	0.2056	0.0518	Normal Distribution
Distribution	D'Agostino Skewness	1.539	2.576	0.1238	Normal Distribution
Distribution	D'Agostino Kurtosis	0.7395	2.576	0.4596	Normal Distribution
Distribution	D'Agostino Omnibus	2.915	9.21	0.2328	Normal Distribution

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 02-5557-2420 Endpoint: 7d Survival Rate CETIS Version: CETISv1.7.0
Analyzed: 10 Jan-11 14:52 Analysis: Parametric-Control vs Treatments Official Results: Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.825	0.806	0.844	0.8	0.9	0.009285	0.05	6.06%	0.0%
6.25		4	0.625	0.5466	0.7034	0.4	0.9	0.03828	0.2062	32.98%	24.24%
12.5		4	0.7	0.6178	0.7822	0.5	1	0.04011	0.216	30.86%	15.15%
25		4	0.875	0.8271	0.9229	0.7	1	0.02337	0.1258	14.38%	-6.06%
50		4	0.875	0.8386	0.9114	0.8	1	0.01778	0.09574	10.94%	-6.06%
100		4	0.9	0.8689	0.9311	0.8	1	0.01516	0.08165	9.07%	-9.09%

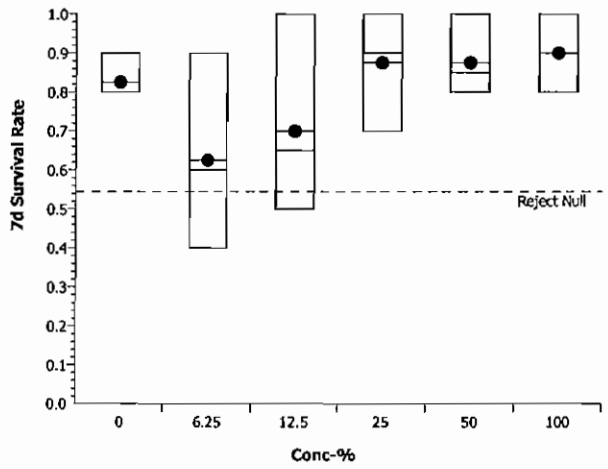
Angular (Corrected) Transformed Summary

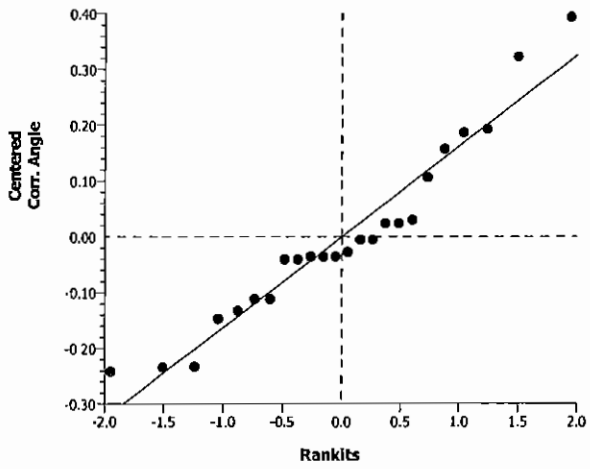
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.143	1.116	1.17	1.107	1.249	0.01317	0.07095	6.21%	0.0%
6.25		4	0.9265	0.8371	1.016	0.6847	1.249	0.04365	0.2351	25.37%	18.92%
12.5		4	1.019	0.9139	1.123	0.7854	1.412	0.05113	0.2754	27.03%	10.85%
25		4	1.225	1.159	1.291	0.9912	1.412	0.03231	0.174	14.2%	-7.24%
50		4	1.219	1.164	1.274	1.107	1.412	0.02695	0.1451	11.91%	-6.67%
100		4	1.254	1.207	1.302	1.107	1.412	0.02314	0.1246	9.94%	-9.78%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8	0.9	0.8
6.25		0.6	0.9	0.4	0.6
12.5		0.7	1	0.5	0.6
25		1	0.7	0.9	0.9
50		0.9	0.8	0.8	1
100		0.9	0.9	0.8	1

Graphics





CETIS Analytical Report

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	14-0112-1005	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	10 Jan-11 14:52	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	17-9215-5628	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:21	Protocol:	EPA/821/R-02-014 (2002)	Diluent:	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	Species:	Menidia beryllina	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	7-10
Sample ID:	13-0457-4870	Code:	VCF1010041m	Client:	FGL Environmental
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	35h (13.5 °C)	Station:	MO-CC		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.166	2.802	0.5585	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	2.525	1.045	N/A	39.6	N/A	95.67
IC10	5.05	2.09	N/A	19.8	N/A	47.84
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.7135	0.638	0.792	0.01149	0.06292	8.82%	0.0%
6.25		4	0.6162	0.486	0.762	0.02533	0.1387	22.51%	13.63%
12.5		4	0.4918	0.419	0.58	0.0122	0.06684	13.59%	31.08%
25		4	0.682	0.587	0.844	0.02226	0.1219	17.88%	4.42%
50		4	0.6727	0.608	0.72	0.009356	0.05125	7.62%	5.71%
100		4	0.6632	0.542	0.862	0.02543	0.1393	21.0%	7.04%

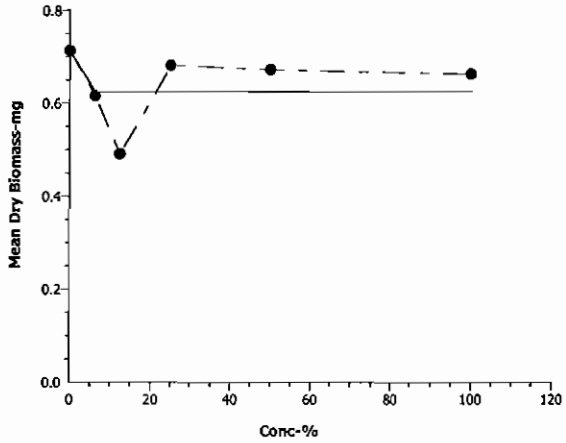
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.638	0.71	0.792	0.714
6.25		0.51	0.762	0.486	0.707
12.5		0.474	0.58	0.419	0.494
25		0.589	0.587	0.844	0.708
50		0.707	0.656	0.608	0.72
100		0.602	0.542	0.647	0.862

Inland Silverside 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-0112-1005	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 14:52	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	15-9748-1854	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	10 Jan-11 14:52	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	17-9215-5628	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:21	Protocol:	EPA/821/R-02-014 (2002)	Diluent:	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	Species:	Menidia beryllina	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	7-10
Sample ID:	13-0457-4870	Code:	VCF1010041m	Client:	FGL Environmental
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	35h (13.5 °C)	Station:	MO-CC		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.825	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.418	2.802	0.2407	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.825	0.8	0.9	0.009129	0.05	6.06%	0.0%	33	40
6.25		4	0.625	0.4	0.9	0.03764	0.2062	32.98%	24.24%	25	40
12.5		4	0.7	0.5	1	0.03944	0.216	30.86%	15.15%	28	40
25		4	0.875	0.7	1	0.02297	0.1258	14.38%	-6.06%	35	40
50		4	0.875	0.8	1	0.01748	0.09574	10.94%	-6.06%	35	40
100		4	0.9	0.8	1	0.01491	0.08165	9.07%	-9.09%	36	40

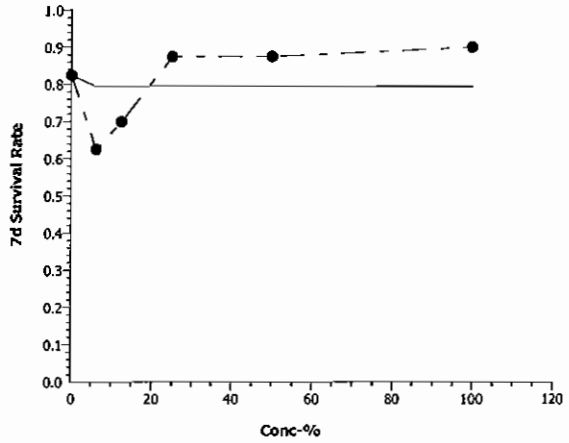
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8	0.9	0.8
6.25		0.6	0.9	0.4	0.6
12.5		0.7	1	0.5	0.6
25		1	0.7	0.9	0.9
50		0.9	0.8	0.8	1
100		0.9	0.9	0.8	1

Inland Silverside 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	15-9748-1854	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 14:52	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	17-9215-5628	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:21	Protocol:	EPA/821/R-02-014 (2002)	Diluent:	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	Species:	Menidia beryllina	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	7-10
Sample ID:	13-0457-4870	Code:	VCF1010041m	Client:	FGL Environmental
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	35h (13.5 °C)	Station:	MO-CC		

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	6.375	6.213	6.537	5.6	6.9	0.07956	0.4773	7.49%	0
6.25		8	6.425	6.278	6.572	5.6	6.9	0.07224	0.4334	6.75%	0
12.5		8	6.1	5.956	6.244	5.6	6.7	0.07071	0.4243	6.96%	0
25		8	6.463	6.318	6.607	5.6	6.8	0.07123	0.4274	6.61%	0
50		8	6.288	6.116	6.459	5.5	6.8	0.08472	0.5083	8.09%	0
100		8	5.938	5.808	6.067	5.4	6.6	0.06358	0.3815	6.43%	0
Overall		48	6.265			5.4	6.9				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.6	7.517	7.683	7.1	7.8	0.04083	0.245	3.22%	0
6.25		8	7.663	7.593	7.732	7.2	7.8	0.03443	0.2066	2.7%	0
12.5		8	7.65	7.582	7.718	7.2	7.8	0.03333	0.2	2.61%	0
25		8	7.65	7.582	7.718	7.2	7.8	0.03333	0.2	2.61%	0
50		8	7.675	7.628	7.722	7.4	7.8	0.02315	0.1389	1.81%	0
100		8	7.775	7.759	7.791	7.7	7.8	0.007717	0.0463	0.6%	0
Overall		48	7.669			7.1	7.8				0 (0%)

Salinity-ppt

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	34	34	34	34	34	0	0	0.0%	0
6.25		8	34	34	34	34	34	0	0	0.0%	0
12.5		8	34	34	34	34	34	0	0	0.0%	0
25		8	34	34	34	34	34	0	0	0.0%	0
50		8	34	34	34	34	34	0	0	0.0%	0
100		8	34	34	34	34	34	0	0	0.0%	0
Overall		48	34			34	34				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.14	24.11	24.17	24	24.3	0.01526	0.09153	0.38%	0
6.25		8	24.06	24.05	24.08	24	24.1	0.008602	0.05161	0.21%	0
12.5		8	24.08	24.06	24.09	24	24.1	0.007683	0.0461	0.19%	0
25		8	24.08	24.06	24.09	24	24.1	0.007683	0.0461	0.19%	0
50		8	24.06	24.05	24.08	24	24.1	0.008602	0.05161	0.21%	0
100		8	24.13	24.09	24.16	24	24.4	0.0194	0.1164	0.48%	0
Overall		48	24.09			24	24.4				0 (0%)

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	5.6	6.7	6.9	6.9	6.3	6.6	6	6
6.25		5.6	6.7	6.9	6.7	6.8	6.3	6.2	6.2
12.5		5.6	6.7	5.8	6.7	6.2	6.2	5.8	5.8
25		5.6	6.7	6.7	6.8	6.8	6.7	6.2	6.2
50		5.6	6.6	6.8	6.7	6.7	6.2	6.2	5.5
100		5.6	5.8	6.6	5.8	5.4	5.9	6.2	6.2

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7.6	7.6	7.8	7.8	7.4	7.8	7.1
6.25		7.8	7.6	7.6	7.8	7.8	7.7	7.8	7.2
12.5		7.8	7.6	7.6	7.7	7.8	7.7	7.8	7.2
25		7.8	7.6	7.6	7.7	7.8	7.7	7.8	7.2
50		7.8	7.6	7.6	7.7	7.8	7.7	7.8	7.4
100		7.8	7.7	7.8	7.8	7.7	7.8	7.8	7.8

Salinity-ppt

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	34	34	34	34	34	34	34	34
6.25		34	34	34	34	34	34	34	34
12.5		34	34	34	34	34	34	34	34
25		34	34	34	34	34	34	34	34
50		34	34	34	34	34	34	34	34
100		34	34	34	34	34	34	34	34

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.2	24.1	24.1	24.1	24.1	24.2	24.3
6.25		24	24.1	24.1	24.1	24.1	24	24	24.1
12.5		24	24.1	24.1	24.1	24.1	24	24.1	24.1
25		24	24.1	24.1	24.1	24.1	24	24.1	24.1
50		24	24.1	24.1	24.1	24	24	24.1	24.1
100		24	24.1	24.4	24.1	24.1	24.1	24.1	24.1

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 10, 2011

Mr. Arnie Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, EPA-600/R95/136, 1995*. Results were as follows:

CLIENT:	County of Ventura
SAMPLE I.D.:	ME-SCR
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.042

CHRONIC SEA URCHIN FERTILIZATION BIOASSAY

NOEC	=	100.00 %
TUc	=	1.00
IC25	=	>100.00 %
IC50	=	>100.00 %

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Purple Sea Urchin Sperm Cell Fertilization Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	13-7530-9835	**Test Type:**	Fertilization	**Analyst:**	
Start Date:	06 Oct-10 15:16	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	06 Oct-10 16:16	**Species:**	Strongylocentrotus purpuratus	**Brine:**	Not Applicable
Duration:	60m	**Source:**	David Gutoff	**Age:**	
Sample ID:	13-8904-4836	**Code:**	VCF1010042uf	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	10h (5.4 °C)	**Station:**	ME-SCR		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
07-2781-5805	Fertilization Rate	100	>100	N/A	3.08%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
07-8882-9814	Fertilization Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
07-2781-5805	Fertilization Rate	Control Resp	0.9725	0.7 - NL	Yes	Result Within Limits
07-8882-9814	Fertilization Rate	Control Resp	0.9725	0.7 - NL	Yes	Result Within Limits
07-2781-5805	Fertilization Rate	PMSD	0.0308	NL - 0.25	No	Result Within Limits

Fertilization Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9725	0.9648	0.9802	0.95	1	0.003764	0.02062	2.12%	0.0%
6.25		4	0.975	0.9678	0.9822	0.96	1	0.003496	0.01915	1.96%	-0.26%
12.5		4	0.97	0.967	0.973	0.96	0.98	0.001491	0.008165	0.84%	0.26%
25		4	0.9775	0.9728	0.9822	0.96	0.99	0.002297	0.01258	1.29%	-0.51%
50		4	0.9675	0.9639	0.9711	0.96	0.98	0.001748	0.009575	0.99%	0.51%
100		4	0.97	0.9647	0.9753	0.95	0.98	0.002582	0.01414	1.46%	0.26%

Fertilization Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.97	0.95	0.97	1
6.25		0.96	1	0.98	0.96
12.5		0.96	0.98	0.97	0.97
25		0.98	0.96	0.99	0.98
50		0.97	0.98	0.96	0.96
100		0.98	0.97	0.98	0.95

Purple Sea Urchin Sperm Cell Fertilization Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	07-2781-5805	**Endpoint:**	Fertilization Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Dec-10 9:25	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	13-7530-9835	**Test Type:**	Fertilization	**Analyst:**	
Start Date:	06 Oct-10 15:16	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	06 Oct-10 16:16	**Species:**	Strongylocentrotus purpuratus	**Brine:**	Not Applicable
Duration:	60m	**Source:**	David Gutoff	**Age:**	
Sample ID:	13-8904-4836	**Code:**	VCF1010042uf	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	10h (5.4 °C)	**Station:**	ME-SCR		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	3.08%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-0.2031	2.407	0.08613	0.8861	Non-Significant Effect
		12.5	0.4731	2.407	0.08613	0.6591	Non-Significant Effect
		25	-0.2682	2.407	0.08613	0.9001	Non-Significant Effect
		50	0.6637	2.407	0.08613	0.5745	Non-Significant Effect
		100	0.417	2.407	0.08613	0.6829	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9725	0.7 - NL	Yes	Result Within Limits
PMSD	0.0308	NL - 0.25	No	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.366	2.802	0.2893	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.003872266	0.0007744533	5	0.3024	0.9050	Non-Significant Effect
Error	0.04609328	0.002560738	18			
Total	0.04996555	0.003335191	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.44	15.09	0.3645	Equal Variances
Variances	Mod Levene Equality of Variance	0.6375	4.248	0.6740	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9382		0.1484	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1483	0.2056	0.1855	Normal Distribution
Distribution	D'Agostino Skewness	1.547	2.576	0.1218	Normal Distribution
Distribution	D'Agostino Kurtosis	0.8561	2.576	0.3919	Normal Distribution
Distribution	D'Agostino Omnibus	3.127	9.21	0.2094	Normal Distribution

Purple Sea Urchin Sperm Cell Fertilization Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	07-2781-5805	**Endpoint:**	Fertilization Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Dec-10 9:25	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Fertilization Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9725	0.9647	0.9803	0.95	1	0.003828	0.02062	2.12%	0.0%
6.25		4	0.975	0.9677	0.9823	0.96	1	0.003556	0.01915	1.96%	-0.26%
12.5		4	0.97	0.9669	0.9731	0.96	0.98	0.001516	0.008165	0.84%	0.26%
25		4	0.9775	0.9727	0.9823	0.96	0.99	0.002337	0.01258	1.29%	-0.51%
50		4	0.9675	0.9639	0.9711	0.96	0.98	0.001778	0.009575	0.99%	0.51%
100		4	0.97	0.9646	0.9754	0.95	0.98	0.002626	0.01414	1.46%	0.26%

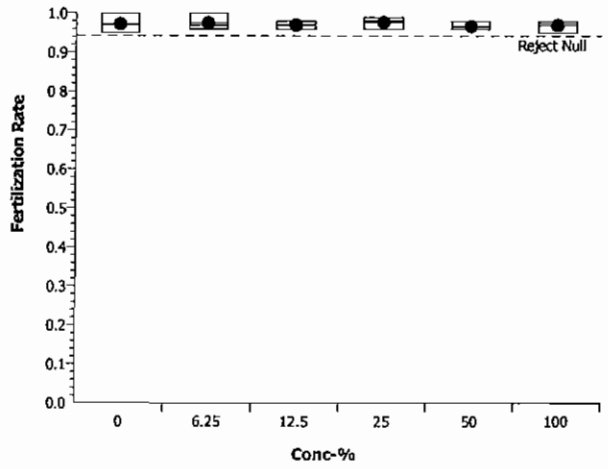
Angular (Corrected) Transformed Summary

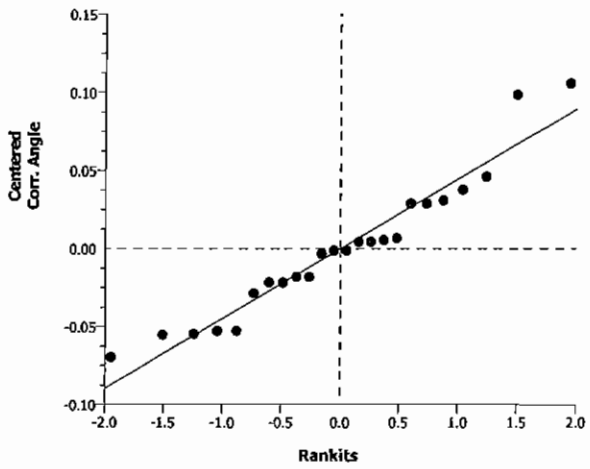
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.415	1.386	1.443	1.345	1.521	0.01386	0.07465	5.28%	0.0%
6.25		4	1.422	1.395	1.449	1.369	1.521	0.01327	0.07148	5.03%	-0.51%
12.5		4	1.398	1.389	1.407	1.369	1.429	0.004516	0.02432	1.74%	1.2%
25		4	1.424	1.409	1.44	1.369	1.471	0.00773	0.04163	2.92%	-0.68%
50		4	1.391	1.38	1.402	1.369	1.429	0.005251	0.02828	2.03%	1.68%
100		4	1.4	1.385	1.415	1.345	1.429	0.007331	0.03948	2.82%	1.06%

Fertilization Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.97	0.95	0.97	1
6.25		0.96	1	0.98	0.96
12.5		0.96	0.98	0.97	0.97
25		0.98	0.96	0.99	0.98
50		0.97	0.98	0.96	0.96
100		0.98	0.97	0.98	0.95

Graphics





CETIS Analytical Report

Purple Sea Urchin Sperm Cell Fertilization Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	07-8882-9814	Endpoint:	Fertilization Rate	CETIS Version:	CETISv1.7.0
Analyzed:	10 Dec-10 9:25	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	13-7530-9835	Test Type:	Fertilization	Analyst:	
Start Date:	06 Oct-10 15:16	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	06 Oct-10 16:16	Species:	Strongylocentrotus purpuratus	Brine:	Not Applicable
Duration:	60m	Source:	David Gutoff	Age:	
Sample ID:	13-8904-4836	Code:	VCF1010042uf	Client:	VCWPD
Sample Date:	06 Oct-10 05:00	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	10h (5.4 °C)	Station:	ME-SCR		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9725	0.7 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.366	2.802	0.2893	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

Fertilization Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9725	0.95	1	0.003764	0.02062	2.12%	0.0%	389	400
6.25		4	0.975	0.96	1	0.003496	0.01915	1.96%	-0.26%	390	400
12.5		4	0.97	0.96	0.98	0.001491	0.008165	0.84%	0.26%	388	400
25		4	0.9775	0.96	0.99	0.002297	0.01258	1.29%	-0.51%	391	400
50		4	0.9675	0.96	0.98	0.001748	0.009575	0.99%	0.51%	387	400
100		4	0.97	0.95	0.98	0.002582	0.01414	1.46%	0.26%	388	400

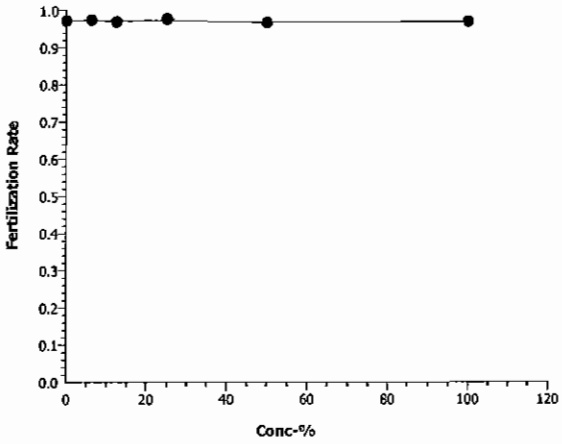
Fertilization Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.97	0.95	0.97	1
6.25		0.96	1	0.98	0.96
12.5		0.96	0.98	0.97	0.97
25		0.98	0.96	0.99	0.98
50		0.97	0.98	0.96	0.96
100		0.98	0.97	0.98	0.95

Purple Sea Urchin Sperm Cell Fertilization Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	07-8882-9814	**Endpoint:**	Fertilization Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Dec-10 9:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Purple Sea Urchin Sperm Cell Fertilization Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	13-7530-9835	**Test Type:**	Fertilization	**Analyst:**	
Start Date:	06 Oct-10 15:16	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	06 Oct-10 16:16	**Species:**	Strongylocentrotus purpuratus	**Brine:**	Not Applicable
Duration:	60m	**Source:**	David Gutoff	**Age:**	
Sample ID:	13-8904-4836	**Code:**	VCF1010042uf	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	10h (5.4 °C)	**Station:**	ME-SCR		

Parameter Acceptability

Parameter	Min	Max	Acceptability Limits	Overlap	Decision
Salinity-ppt	34	34	32 - 36	Yes	Results Within Limits
Temperature-°C	14.8	14.9	11 - 13	Yes	Results Above Limit

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	6.15	5.839	6.461	5.5	6.8	0.1532	0.9192	14.95%	0
6.25		2	6.25	6.035	6.465	5.8	6.7	0.1061	0.6364	10.18%	0
12.5		2	6.25	6.083	6.417	5.9	6.6	0.0825	0.495	7.92%	0
25		2	6.3	6.109	6.491	5.9	6.7	0.09428	0.5657	8.98%	0
50		2	6.25	6.035	6.465	5.8	6.7	0.1061	0.6364	10.18%	0
100		2	6.35	6.135	6.565	5.9	6.8	0.1061	0.6364	10.02%	0
Overall		12	6.258			5.5	6.8				0 (0%)

Total Ammonia (N)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	7.9	7.899	7.901	7.9	7.9	0	0	0.0%	0
6.25		2	7.95	7.926	7.974	7.9	8	0.01178	0.0707	0.89%	0
12.5		2	7.95	7.926	7.974	7.9	8	0.01178	0.0707	0.89%	0
25		2	8	8	8	8	8	0	0	0.0%	0
50		2	8	8	8	8	8	0	0	0.0%	0
100		2	7.9	7.899	7.901	7.9	7.9	0	0	0.0%	0
Overall		12	7.95			7.9	8				0 (0%)

Salinity-ppt

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	34	34	34	34	34	0	0	0.0%	0
6.25		2	34	34	34	34	34	0	0	0.0%	0
12.5		2	34	34	34	34	34	0	0	0.0%	0
25		2	34	34	34	34	34	0	0	0.0%	0
50		2	34	34	34	34	34	0	0	0.0%	0
100		2	34	34	34	34	34	0	0	0.0%	0
Overall		12	34			34	34				0 (0%)

Purple Sea Urchin Sperm Cell Fertilization Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
6.25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
12.5		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
50		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
100		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
Overall		12	14.85			14.8	14.9				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2
0	Negative Contr	6.8	5.5
6.25		6.7	5.8
12.5		6.6	5.9
25		6.7	5.9
50		6.7	5.8
100		6.8	5.9

Total Ammonia (N)-mg/L

Conc-%	Control Type	1
0	Negative Contr	0
100		0

pH-Units

Conc-%	Control Type	1	2
0	Negative Contr	7.9	7.9
6.25		7.9	8
12.5		7.9	8
25		8	8
50		8	8
100		7.9	7.9

Salinity-ppt

Conc-%	Control Type	1	2
0	Negative Contr	34	34
6.25		34	34
12.5		34	34
25		34	34
50		34	34
100		34	34

Temperature-°C

Conc-%	Control Type	1	2
0	Negative Contr	14.8	14.9
6.25		14.8	14.9
12.5		14.8	14.9
25		14.8	14.9
50		14.8	14.9
100		14.8	14.9

AQUATIC
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LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-CAM
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.043

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	04-6912-6976	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:33	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 16:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	00-4290-2546	**Code:**	VCF1010043f	**Client:**	VCWPD
Sample Date:	06 Oct-10 02:45	**Material:**	Sample Water	**Project:**	Event 1
Receive Date:	06 Oct-10 07:15	**Source:**	Bioassay Report		
Sample Age:	37h (13.5 °C)	**Station:**	MO-CAM		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
04-1403-9371	7d Survival Rate	100	>100	N/A	5.04%	1	Steel Many-One Rank Test
00-6576-7708	Mean Dry Biomass-mg	100	>100	N/A	28.62%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
05-4426-8773	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
15-4358-5756	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
04-1403-9371	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
05-4426-8773	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
00-6576-7708	Mean Dry Biomass-mg	Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
15-4358-5756	Mean Dry Biomass-mg	Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
00-6576-7708	Mean Dry Biomass-mg	PMSD	0.2862	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	0.0%
6.25		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-1.72%
12.5		4	1	1	1	1	1	0	0	0.0%	-3.45%
25		4	1	1	1	1	1	0	0	0.0%	-3.45%
50		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-1.72%
100		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-1.72%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.3231	0.3582	0.308	0.4087	0.008576	0.04697	13.79%	0.0%
6.25		4	0.3323	0.3286	0.336	0.318	0.3393	0.001812	0.009926	2.99%	2.45%
12.5		4	0.3245	0.3153	0.3337	0.2927	0.3507	0.004499	0.02464	7.59%	4.75%
25		4	0.3307	0.3172	0.3441	0.2913	0.3787	0.006578	0.03603	10.9%	2.94%
50		4	0.3288	0.3014	0.3562	0.2713	0.436	0.0134	0.07338	22.31%	3.47%
100		4	0.4028	0.3653	0.4403	0.3093	0.5453	0.01834	0.1004	24.93%	-18.25%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	0.9333
6.25		0.9333	1	1	1
12.5		1	1	1	1
25		1	1	1	1
50		1	1	0.9333	1
100		1	1	1	0.9333

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
6.25		0.3393	0.3333	0.318	0.3387
12.5		0.3507	0.32	0.3347	0.2927
25		0.2913	0.3247	0.328	0.3787
50		0.2713	0.296	0.312	0.436
100		0.3093	0.3813	0.3753	0.5453

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-6576-7708	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Jan-11 10:53	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	04-6912-6976	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:33	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 16:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	00-4290-2546	**Code:**	VCF1010043f	**Client:**	VCWPD
Sample Date:	06 Oct-10 02:45	**Material:**	Sample Water	**Project:**	Event 1
Receive Date:	06 Oct-10 07:15	**Source:**	Bioassay Report		
Sample Age:	37h (13.5 °C)	**Station:**	MO-CAM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	28.62%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	0.2058	2.407	0.09749	0.7657	Non-Significant Effect
		12.5	0.3992	2.407	0.09749	0.6904	Non-Significant Effect
		25	0.2469	2.407	0.09749	0.7505	Non-Significant Effect
		50	0.2922	2.407	0.09749	0.7333	Non-Significant Effect
		100	-1.535	2.407	0.09749	0.9963	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
PMSD	0.2862	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.812	2.802	0.0476	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.01757498	0.003514996	5	1.071	0.4086	Non-Significant Effect
Error	0.05905034	0.003280574	18			
Total	0.07662532	0.00679557	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	13.01	15.09	0.0233	Equal Variances
Variances	Mod Levene Equality of Variance	0.7794	4.248	0.5774	Equal Variances
Distribution	Shapiro-Wilk Normality	0.8928		0.0152	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.2122	0.2056	0.0066	Non-normal Distribution
Distribution	D'Agostino Skewness	2.435	2.576	0.0149	Normal Distribution
Distribution	D'Agostino Kurtosis	1.946	2.576	0.0516	Normal Distribution
Distribution	D'Agostino Omnibus	9.718	9.21	0.0078	Non-normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.3228	0.3585	0.308	0.4087	0.008723	0.04697	13.79%	0.0%
6.25		4	0.3323	0.3286	0.3361	0.318	0.3393	0.001843	0.009926	2.99%	2.45%
12.5		4	0.3245	0.3151	0.3339	0.2927	0.3507	0.004576	0.02464	7.59%	4.75%
25		4	0.3307	0.317	0.3444	0.2913	0.3787	0.00669	0.03603	10.9%	2.94%
50		4	0.3288	0.3009	0.3567	0.2713	0.436	0.01363	0.07338	22.31%	3.47%
100		4	0.4028	0.3646	0.441	0.3093	0.5453	0.01865	0.1004	24.93%	-18.25%

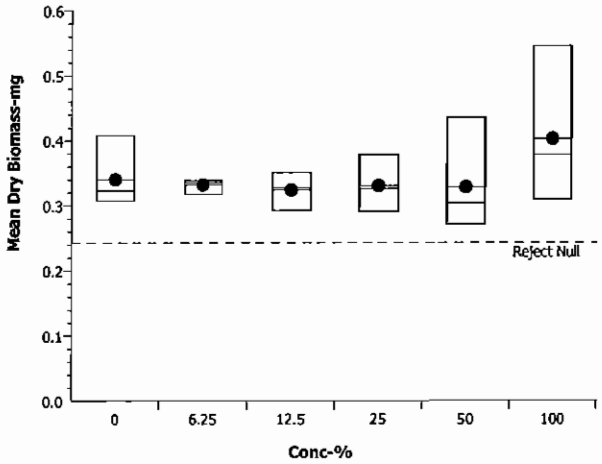
Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

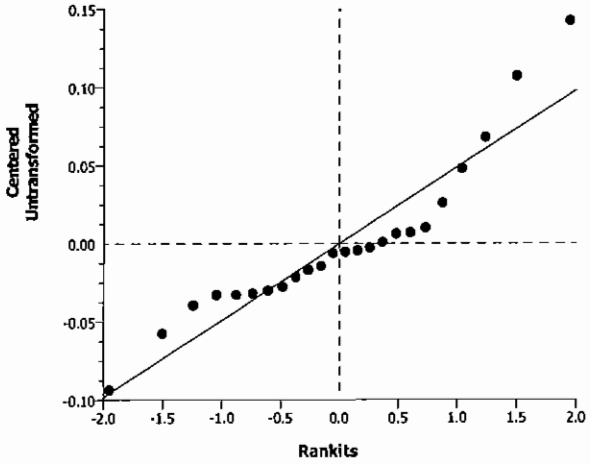
Analysis ID:	00-6576-7708	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Jan-11 10:53	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
6.25		0.3393	0.3333	0.318	0.3387
12.5		0.3507	0.32	0.3347	0.2927
25		0.2913	0.3247	0.328	0.3787
50		0.2713	0.296	0.312	0.436
100		0.3093	0.3813	0.3753	0.5453

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	04-1403-9371	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Jan-11 10:53	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	04-6912-6976	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:33	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 16:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	00-4290-2546	**Code:**	VCF1010043f	**Client:**	VCWPD
Sample Date:	06 Oct-10 02:45	**Material:**	Sample Water	**Project:**	Event 1
Receive Date:	06 Oct-10 07:15	**Source:**	Bioassay Report		
Sample Age:	37h (13.5 °C)	**Station:**	MO-CAM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	5.04%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	20	10	3	0.9516	Non-Significant Effect
		12.5	22	10	2	0.9908	Non-Significant Effect
		25	22	10	2	0.9908	Non-Significant Effect
		50	20	10	3	0.9516	Non-Significant Effect
		100	20	10	3	0.9516	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.995	2.802	0.9226	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.01228534	0.002457067	5	0.7846	0.5740	Non-Significant Effect
Error	0.05636802	0.003131557	18			
Total	0.06865335	0.005588624	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	1.133	4.248	0.3786	Equal Variances
Distribution	Shapiro-Wilk Normality	0.8239		0.0007	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.2917	0.2056	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	2.077	2.576	0.0378	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2991	2.576	0.7648	Normal Distribution
Distribution	D'Agostino Omnibus	4.405	9.21	0.1105	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 04-1403-9371 Endpoint: 7d Survival Rate CETIS Version: CETISv1.7.0
Analyzed: 06 Jan-11 10:53 Analysis: Nonparametric-Control vs Treatments Official Results: Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	0.0%
6.25		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-1.72%
12.5		4	1	1	1	1	1	0	0	0.0%	-3.45%
25		4	1	1	1	1	1	0	0	0.0%	-3.45%
50		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-1.72%
100		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-1.72%

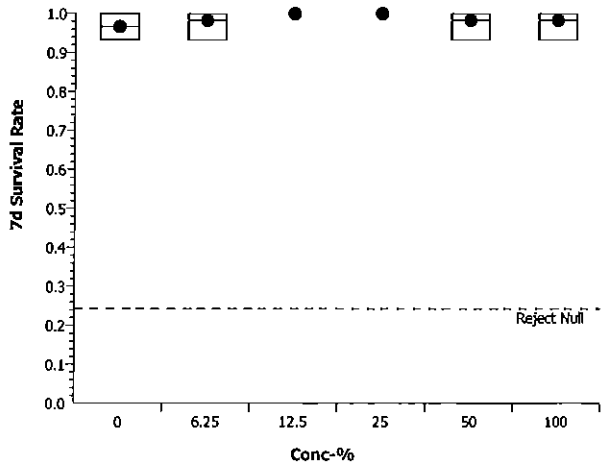
Angular (Corrected) Transformed Summary

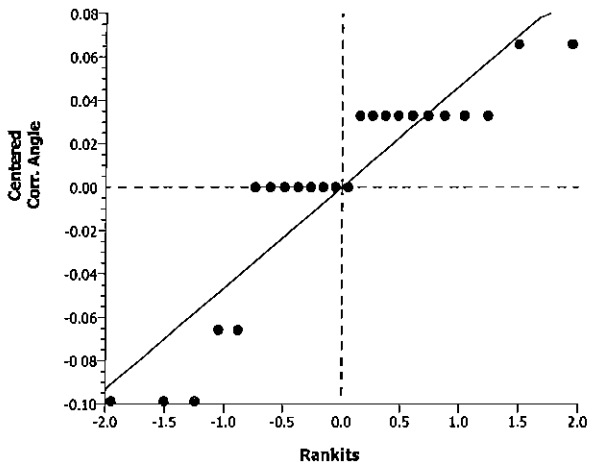
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	0.0%
6.25		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-2.39%
12.5		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-4.79%
25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-4.79%
50		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-2.39%
100		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-2.39%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	0.9333
6.25		0.9333	1	1	1
12.5		1	1	1	1
25		1	1	1	1
50		1	1	0.9333	1
100		1	1	1	0.9333

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	15-4358-5756	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	06 Jan-11 10:53	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	04-6912-6976	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:33	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	00-4290-2546	Code:	VCF1010043f	Client:	VCWPD
Sample Date:	06 Oct-10 02:45	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	37h (13.5 °C)	Station:	MO-CAM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

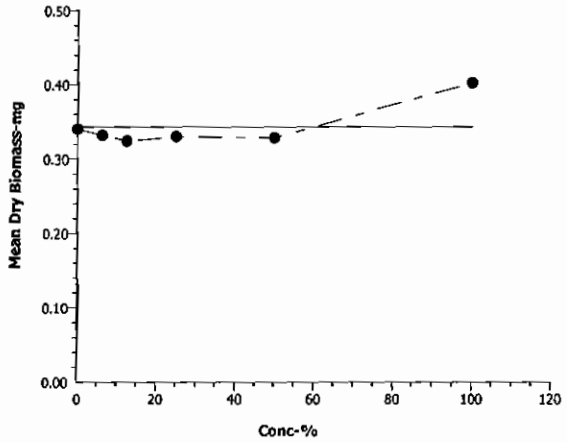
			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.308	0.4087	0.008576	0.04697	13.79%	0.0%
6.25		4	0.3323	0.318	0.3393	0.001812	0.009926	2.99%	2.45%
12.5		4	0.3245	0.2927	0.3507	0.004499	0.02464	7.59%	4.75%
25		4	0.3307	0.2913	0.3787	0.006578	0.03603	10.9%	2.94%
50		4	0.3288	0.2713	0.436	0.0134	0.07338	22.31%	3.47%
100		4	0.4028	0.3093	0.5453	0.01834	0.1004	24.93%	-18.25%

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
6.25		0.3393	0.3333	0.318	0.3387
12.5		0.3507	0.32	0.3347	0.2927
25		0.2913	0.3247	0.328	0.3787
50		0.2713	0.296	0.312	0.436
100		0.3093	0.3813	0.3753	0.5453

Analysis ID:	15-4358-5756	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Jan-11 10:53	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-4426-8773	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	06 Jan-11 10:53	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	04-6912-6976	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:33	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	00-4290-2546	Code:	VCF1010043f	Client:	VCWPD
Sample Date:	06 Oct-10 02:45	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	37h (13.5 °C)	Station:	MO-CAM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.995	2.802	0.9226	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9667	0.9333	1	0.007027	0.03849	3.98%	0.0%	58	60
6.25		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-1.72%	59	60
12.5		4	1	1	1	0	0	0.0%	-3.45%	60	60
25		4	1	1	1	0	0	0.0%	-3.45%	60	60
50		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-1.72%	59	60
100		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-1.72%	59	60

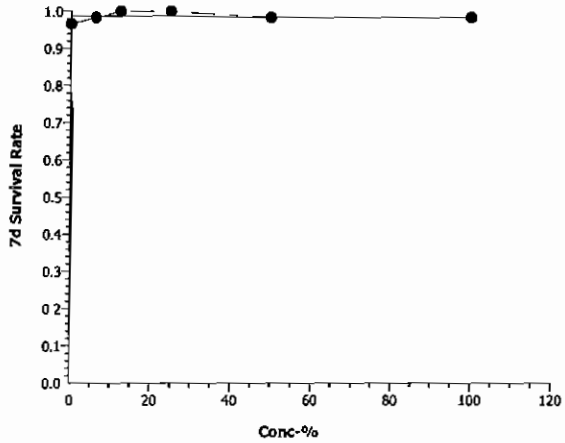
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	0.9333
6.25		0.9333	1	1	1
12.5		1	1	1	1
25		1	1	1	1
50		1	1	0.9333	1
100		1	1	1	0.9333

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	05-4426-8773	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Jan-11 10:53	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	04-6912-6976	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:33	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	00-4290-2546	Code:	VCF1010043f	Client:	VCWPD
Sample Date:	06 Oct-10 02:45	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	37h (13.5 °C)	Station:	MO-CAM		

Alkallnity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	24	24	24	24	24	0	0	0.0%	0
Overall		16	42.38			24	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	327.6	324.2	331	311	339	1.667	9.999	3.05%	0
12.5		8	313.6	310.3	316.9	301	330	1.638	9.826	3.13%	0
25		8	292.6	290.4	294.9	279	299	1.116	6.696	2.29%	0
50		8	277.4	273.4	281.3	259	288	1.944	11.66	4.2%	0
100		8	228.1	224.2	232.1	207	238	1.943	11.66	5.11%	0
Overall		48	296.4			207	361				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.325	7.136	7.514	6.5	7.8	0.09333	0.56	7.65%	0
12.5		8	7.3	7.081	7.519	6.1	7.8	0.1076	0.6459	8.85%	0
25		8	7.138	6.876	7.399	6.1	8	0.1288	0.7726	10.83%	0
50		8	7.325	7.096	7.554	6.1	8	0.1126	0.6756	9.22%	0
100		8	7.313	7.09	7.535	6.2	8	0.1096	0.6578	9.0%	0
Overall		48	7.335			6.1	8				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	62	62	62	62	62	0	0	0.0%	0
Overall		16	73.63			62	90				0 (0%)

Total Ammonia (N)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.95	7.893	8.007	7.7	8.3	0.02817	0.169	2.13%	0
6.25		8	7.775	7.719	7.831	7.5	8	0.02782	0.1669	2.15%	0
12.5		8	7.763	7.708	7.817	7.5	8	0.02663	0.1598	2.06%	0
25		8	7.738	7.693	7.782	7.5	7.9	0.02171	0.1302	1.68%	0
50		8	7.738	7.693	7.782	7.5	7.9	0.02171	0.1302	1.68%	0
100		8	7.688	7.635	7.74	7.5	7.9	0.02588	0.1553	2.02%	0
Overall		48	7.775			7.5	8.3				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.26	24.18	24.35	24.1	24.8	0.04266	0.256	1.06%	0
6.25		8	24.2	24.14	24.26	24	24.6	0.03086	0.1851	0.77%	0
12.5		8	24.24	24.18	24.3	24	24.6	0.03078	0.1847	0.76%	0
25		8	24.21	24.16	24.27	24	24.5	0.02588	0.1553	0.64%	0
50		8	24.21	24.16	24.27	24	24.5	0.02588	0.1553	0.64%	0
100		8	24.2	24.15	24.25	24	24.5	0.02519	0.1511	0.62%	0
Overall		48	24.22			24	24.8				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		24	24	24	24	24	24	24	24

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		311	330	333	335	335	339	320	318
12.5		311	330	308	315	320	321	303	301
25		279	298	299	295	295	297	290	288
50		272	280	285	288	285	288	262	259
100		226	232	235	237	238	236	214	207

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.8	7.5	7.8	7.8	7.8	6.7	7.7	6.5
12.5		6.8	7.8	7.7	7.7	7.8	6.8	7.7	6.1
25		6.8	8	7.9	7.7	6.9	7.6	6.1	6.1
50		6.8	8	7.9	7.7	7.7	6.8	7.6	6.1
100		6.7	8	7.9	7.7	7.7	6.8	7.5	6.2

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		62	62	62	62	62	62	62	62

Total Ammonia (N)-mg/L

Conc-%	Control Type	1
0	Negative Contr	0
100		0

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.3	7.7
6.25		7.6	7.5	7.8	7.8	7.9	7.7	7.9	8
12.5		7.6	7.5	7.8	7.8	7.9	8	7.7	7.8
25		7.6	7.5	7.8	7.8	7.8	7.9	7.7	7.8
50		7.6	7.5	7.8	7.8	7.9	7.7	7.8	7.8
100		7.5	7.5	7.6	7.8	7.8	7.9	7.6	7.8

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.8	24.5	24.1	24.1	24.1	24.1	24.2	24.2
6.25		24.6	24.1	24.1	24.2	24.1	24.2	24.3	24
12.5		24.6	24.1	24.2	24.1	24.3	24	24.3	24.3
25		24.5	24.1	24.2	24.1	24.3	24	24.3	24.2
50		24.5	24.1	24.2	24.1	24.3	24	24.3	24.2
100		24.5	24.1	24.2	24.1	24.2	24	24.3	24.2

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arnie Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, EPA-600/R95/136, 1995*. Results were as follows:

CLIENT:	County of Ventura
SAMPLE I.D.:	ME-VR2
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.044

CHRONIC SEA URCHIN FERTILIZATION BIOASSAY

NOEC	=	100.00 %
TUc	=	1.00
IC25	=	>100.00 %
IC50	=	>100.00 %

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Purple Sea Urchin Sperm Cell Fertilization Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	18-4291-2773	**Test Type:**	Fertilization	**Analyst:**	
Start Date:	06 Oct-10 13:18	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	06 Oct-10 14:18	**Species:**	Strongylocentrotus purpuratus	**Brine:**	Not Applicable
Duration:	60m	**Source:**	David Gutoff	**Age:**	
Sample ID:	01-7550-9150	**Code:**	VCF1010044uf	**Client:**	VCWPD
Sample Date:	06 Oct-10 02:45	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	**Source:**	Bioassay Report		
Sample Age:	11h (13.5 °C)	**Station:**	ME-VR2		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
12-9525-1754	Fertilization Rate	100	>100	N/A	3.65%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
04-1423-0183	Fertilization Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
04-1423-0183	Fertilization Rate	Control Resp	0.96	0.7 - NL	Yes	Result Within Limits
12-9525-1754	Fertilization Rate	Control Resp	0.96	0.7 - NL	Yes	Result Within Limits
12-9525-1754	Fertilization Rate	PMSD	0.03646	NL - 0.25	No	Result Within Limits

Fertilization Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.96	0.9532	0.9668	0.94	0.98	0.003333	0.01826	1.9%	0.0%
6.25		4	0.95	0.9419	0.9581	0.93	0.98	0.003944	0.0216	2.27%	1.04%
12.5		4	0.9475	0.9372	0.9578	0.92	0.98	0.005028	0.02754	2.91%	1.3%
25		4	0.95	0.9439	0.9561	0.93	0.97	0.002981	0.01633	1.72%	1.04%
50		4	0.965	0.9602	0.9698	0.95	0.98	0.002357	0.01291	1.34%	-0.52%
100		4	0.945	0.9402	0.9498	0.93	0.96	0.002357	0.01291	1.37%	1.56%

Fertilization Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.98	0.94	0.97	0.95
6.25		0.93	0.94	0.98	0.95
12.5		0.92	0.96	0.93	0.98
25		0.97	0.93	0.95	0.95
50		0.98	0.96	0.95	0.97
100		0.93	0.94	0.96	0.95

Purple Sea Urchin Sperm Cell Fertilization Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	12-9525-1754	**Endpoint:**	Fertilization Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	09 Dec-10 11:51	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	18-4291-2773	**Test Type:**	Fertilization	**Analyst:**	
Start Date:	06 Oct-10 13:18	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	06 Oct-10 14:18	**Species:**	Strongylocentrotus purpuratus	**Brine:**	Not Applicable
Duration:	60m	**Source:**	David Gutoff	**Age:**	
Sample ID:	01-7550-9150	**Code:**	VCF1010044uf	**Client:**	VCWPD
Sample Date:	06 Oct-10 02:45	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	**Source:**	Bioassay Report		
Sample Age:	11h (13.5 °C)	**Station:**	ME-VR2		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	3.65%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	0.7032	2.407	0.08017	0.5565	Non-Significant Effect
		12.5	0.8168	2.407	0.08017	0.5045	Non-Significant Effect
		25	0.78	2.407	0.08017	0.5214	Non-Significant Effect
		50	-0.3461	2.407	0.08017	0.9152	Non-Significant Effect
		100	1.149	2.407	0.08017	0.3578	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.7 - NL	Yes	Result Within Limits
PMSD	0.03646	NL - 0.25	No	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.981	2.802	0.9598	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.007126006	0.001425201	5	0.6424	0.6706	Non-Significant Effect
Error	0.0399347	0.002218594	18			
Total	0.04706071	0.003643795	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	2.426	15.09	0.7876	Equal Variances
Variances	Mod Levene Equality of Variance	0.862	4.248	0.5251	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9521		0.3012	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.115	0.2056	0.5748	Normal Distribution
Distribution	D'Agostino Skewness	1.017	2.576	0.3090	Normal Distribution
Distribution	D'Agostino Kurtosis	0.8584	2.576	0.3907	Normal Distribution
Distribution	D'Agostino Omnibus	1.772	9.21	0.4124	Normal Distribution

Purple Sea Urchin Sperm Cell Fertilization Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	12-9525-1754	**Endpoint:**	Fertilization Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	09 Dec-10 11:51	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Fertilization Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.96	0.9531	0.9669	0.94	0.98	0.00339	0.01826	1.9%	0.0%
6.25		4	0.95	0.9418	0.9582	0.93	0.98	0.004011	0.0216	2.27%	1.04%
12.5		4	0.9475	0.937	0.958	0.92	0.98	0.005114	0.02754	2.91%	1.3%
25		4	0.95	0.9438	0.9562	0.93	0.97	0.003032	0.01633	1.72%	1.04%
50		4	0.965	0.9601	0.9699	0.95	0.98	0.002397	0.01291	1.34%	-0.52%
100		4	0.945	0.9401	0.9499	0.93	0.96	0.002397	0.01291	1.37%	1.56%

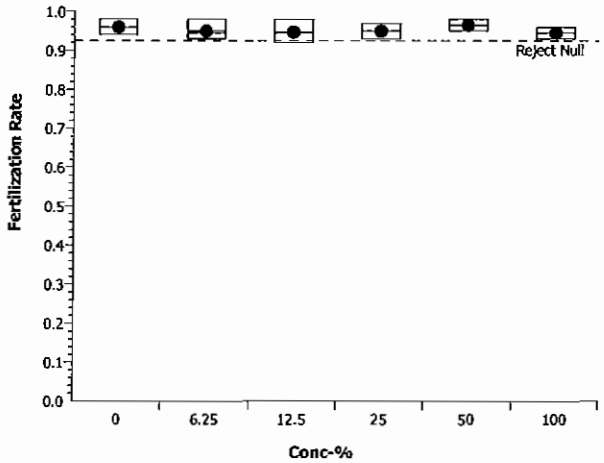
Angular (Corrected) Transformed Summary

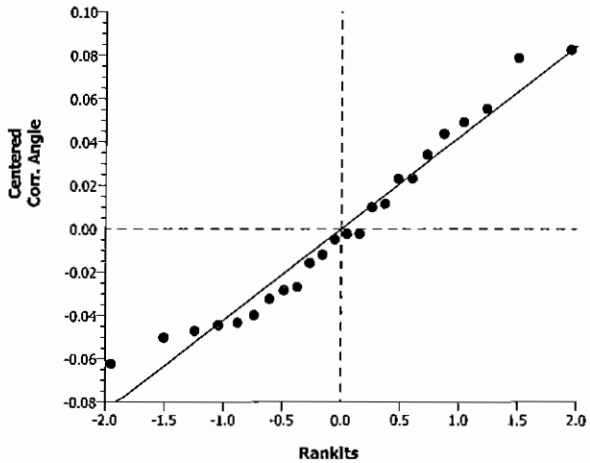
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.374	1.355	1.392	1.323	1.429	0.008919	0.04803	3.5%	0.0%
6.25		4	1.35	1.329	1.371	1.303	1.429	0.01026	0.05527	4.09%	1.71%
12.5		4	1.346	1.321	1.371	1.284	1.429	0.01227	0.0661	4.91%	1.98%
25		4	1.348	1.333	1.362	1.303	1.397	0.007119	0.03834	2.85%	1.89%
50		4	1.385	1.371	1.399	1.345	1.429	0.006682	0.03598	2.6%	-0.84%
100		4	1.335	1.324	1.346	1.303	1.369	0.005306	0.02857	2.14%	2.79%

Fertilization Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.98	0.94	0.97	0.95
6.25		0.93	0.94	0.98	0.95
12.5		0.92	0.96	0.93	0.98
25		0.97	0.93	0.95	0.95
50		0.98	0.96	0.95	0.97
100		0.93	0.94	0.96	0.95

Graphics





Purple Sea Urchin Sperm Cell Fertilization Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-1423-0183	Endpoint:	Fertilization Rate	CETIS Version:	CETISv1.7.0
Analyzed:	09 Dec-10 11:51	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	18-4291-2773	Test Type:	Fertilization	Analyst:	
Start Date:	06 Oct-10 13:18	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	06 Oct-10 14:18	Species:	Strongylocentrotus purpuratus	Brine:	Not Applicable
Duration:	60m	Source:	David Gutoff	Age:	
Sample ID:	01-7550-9150	Code:	VCF1010044uf	Client:	VCWPD
Sample Date:	06 Oct-10 02:45	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	Source:	Bioassay Report		
Sample Age:	11h (13.5 °C)	Station:	ME-VR2		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.7 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.981	2.802	0.9598	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

Fertilization Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.96	0.94	0.98	0.003333	0.01826	1.9%	0.0%	384	400
6.25		4	0.95	0.93	0.98	0.003944	0.0216	2.27%	1.04%	380	400
12.5		4	0.9475	0.92	0.98	0.005028	0.02754	2.91%	1.3%	379	400
25		4	0.95	0.93	0.97	0.002981	0.01633	1.72%	1.04%	380	400
50		4	0.965	0.95	0.98	0.002357	0.01291	1.34%	-0.52%	386	400
100		4	0.945	0.93	0.96	0.002357	0.01291	1.37%	1.56%	378	400

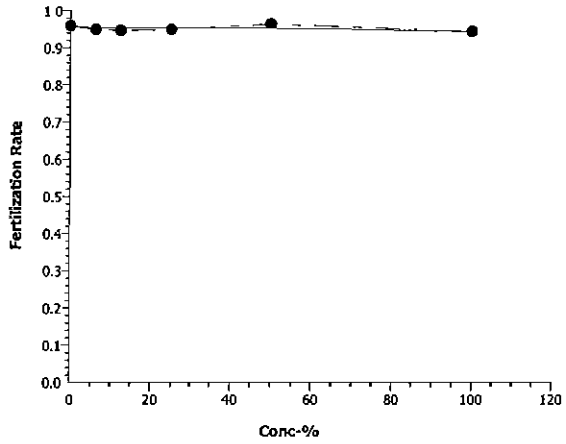
Fertilization Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.98	0.94	0.97	0.95
6.25		0.93	0.94	0.98	0.95
12.5		0.92	0.96	0.93	0.98
25		0.97	0.93	0.95	0.95
50		0.98	0.96	0.95	0.97
100		0.93	0.94	0.96	0.95

Purple Sea Urchin Sperm Cell Fertilization Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	04-1423-0183	**Endpoint:**	Fertilization Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	09 Dec-10 11:51	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Purple Sea Urchin Sperm Cell Fertilization Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	18-4291-2773	**Test Type:**	Fertilization	**Analyst:**	
Start Date:	06 Oct-10 13:18	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	06 Oct-10 14:18	**Species:**	Strongylocentrotus purpuratus	**Brine:**	Not Applicable
Duration:	60m	**Source:**	David Gutoff	**Age:**	
Sample ID:	01-7550-9150	**Code:**	VCF1010044uf	**Client:**	VCWPD
Sample Date:	06 Oct-10 02:45	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 07:15	**Source:**	Bioassay Report		
Sample Age:	11h (13.5 °C)	**Station:**	ME-VR2		

Parameter Acceptability

Parameter	Min	Max	Acceptability Limits	Overlap	Decision
Salinity-ppt	34	34	32 - 36	Yes	Results Within Limits
Temperature-°C	14.8	14.9	11 - 13	Yes	Results Above Limit

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	6.15	5.839	6.461	5.5	6.8	0.1532	0.9192	14.95%	0
6.25		2	6.25	6.035	6.465	5.8	6.7	0.1061	0.6364	10.18%	0
12.5		2	6.3	6.109	6.491	5.9	6.7	0.09428	0.5657	8.98%	0
25		2	6.2	6.056	6.344	5.9	6.5	0.07071	0.4243	6.84%	0
50		2	6.25	6.035	6.465	5.8	6.7	0.1061	0.6364	10.18%	0
100		2	6.25	6.035	6.465	5.8	6.7	0.1061	0.6364	10.18%	0
Overall		12	6.233			5.5	6.8				0 (0%)

Total Ammonia (N)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
6.25		1	0			0	0	0	0		0
12.5		1	0			0	0	0	0		0
25		1	0			0	0	0	0		0
50		1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		6	0			0	0				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	7.9	7.899	7.901	7.9	7.9	0	0	0.0%	0
6.25		2	7.95	7.926	7.974	7.9	8	0.01178	0.0707	0.89%	0
12.5		2	8	8	8	8	8	0	0	0.0%	0
25		2	8	8	8	8	8	0	0	0.0%	0
50		2	8	8	8	8	8	0	0	0.0%	0
100		2	8	8	8	8	8	0	0	0.0%	0
Overall		12	7.975			7.9	8				0 (0%)

Salinity-ppt

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	34	34	34	34	34	0	0	0.0%	0
6.25		2	34	34	34	34	34	0	0	0.0%	0
12.5		2	34	34	34	34	34	0	0	0.0%	0
25		2	34	34	34	34	34	0	0	0.0%	0
50		2	34	34	34	34	34	0	0	0.0%	0
100		2	34	34	34	34	34	0	0	0.0%	0
Overall		12	34			34	34				0 (0%)

Purple Sea Urchin Sperm Cell Fertilization Test Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
6.25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
12.5		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
50		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
100		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
Overall		12	14.85			14.8	14.9				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2
0	Negative Contr	6.8	5.5
6.25		6.7	5.8
12.5		6.7	5.9
25		6.5	5.9
50		6.7	5.8
100		6.7	5.8

Total Ammonia (N)-mg/L

Conc-%	Control Type	1
0	Negative Contr	0
6.25		0
12.5		0
25		0
50		0
100		0

pH-Units

Conc-%	Control Type	1	2
0	Negative Contr	7.9	7.9
6.25		7.9	8
12.5		8	8
25		8	8
50		8	8
100		8	8

Salinity-ppt

Conc-%	Control Type	1	2
0	Negative Contr	34	34
6.25		34	34
12.5		34	34
25		34	34
50		34	34
100		34	34

Temperature-°C

Conc-%	Control Type	1	2
0	Negative Contr	14.8	14.9
6.25		14.8	14.9
12.5		14.8	14.9
25		14.8	14.9
50		14.8	14.9
100		14.8	14.9

AQUATIC BIOASSAY & CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receving Waters to West Coast Estuarine Organisms, EPA/R-95/136.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	ME-VR2
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.044

CHRONIC KELP GERMINATION AND GROWTH BIOASSAY

Germination	NOEC	=	100.00
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %
Tube Length	NOEC	=	100.00 %
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Macrocystis Germination and Germ Tube Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	02-9483-5255	Test Type:	Growth-Germination	Analyst:	
Start Date:	06 Oct-10 13:27	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	08 Oct-10 14:00	Species:	Macrocystis pyrifera	Brine:	Not Applicable
Duration:	49h	Source:	David Gutoff	Age:	
Sample ID:	19-7186-9143	Code:	VCF1010044K	Client:	VCWPD
Sample Date:	06 Oct-10 05:00	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	8h (5.4 °C)	Station:	ME-VR2		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
06-8954-5473	Germination Rate	100	>100	N/A	3.31%	1	Dunnett's Multiple Comparison Test
12-9239-6549	Mean Length	100	>100	N/A	4.87%	1	Steel Many-One Rank Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
13-3330-3167	Germination Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
07-4324-6106	Mean Length	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
06-8954-5473	Germination Rate	Control Resp	0.93	0.7 - NL	Yes	Result Within Limits
13-3330-3167	Germination Rate	Control Resp	0.93	0.7 - NL	Yes	Result Within Limits
07-4324-6106	Mean Length	Control Resp	13.72	10 - NL	Yes	Result Within Limits
12-9239-6549	Mean Length	Control Resp	13.72	10 - NL	Yes	Result Within Limits
06-8954-5473	Germination Rate	PMSD	0.03313	NL - 0.2	No	Result Within Limits
12-9239-6549	Mean Length	PMSD	0.04865	NL - 0.2	No	Result Within Limits

Germination Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	0.93	0.9274	0.9326	0.92	0.94	0.001291	0.007071	0.76%	0.0%
6.25		5	0.956	0.9517	0.9603	0.94	0.97	0.002082	0.0114	1.19%	-2.8%
12.5		5	0.954	0.9483	0.9597	0.93	0.97	0.002769	0.01517	1.59%	-2.58%
25		5	0.942	0.9371	0.9469	0.92	0.95	0.00238	0.01304	1.38%	-1.29%
50		5	0.944	0.9367	0.9513	0.92	0.97	0.003559	0.01949	2.07%	-1.51%
100		5	0.964	0.9567	0.9713	0.95	0.99	0.003559	0.01949	2.02%	-3.66%

Mean Length Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	13.72	13.6	13.84	13.3	14.1	0.05831	0.3194	2.33%	0.0%
6.25		5	13.76	13.66	13.86	13.3	13.9	0.04761	0.2608	1.9%	-0.29%
12.5		5	13.8	13.71	13.89	13.5	14.1	0.04472	0.2449	1.78%	-0.58%
25		5	13.86	13.76	13.96	13.5	14.1	0.04761	0.2608	1.88%	-1.02%
50		5	13.68	13.61	13.75	13.5	13.9	0.03266	0.1789	1.31%	0.29%
100		5	14.16	13.81	14.51	13.4	15.7	0.1701	0.9317	6.58%	-3.21%

Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Germination Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.93	0.92	0.93	0.94	0.93
6.25		0.96	0.95	0.94	0.97	0.96
12.5		0.96	0.97	0.96	0.93	0.95
25		0.95	0.95	0.94	0.92	0.95
50		0.97	0.92	0.93	0.95	0.95
100		0.95	0.99	0.98	0.95	0.95

Mean Length Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	14.1	13.9	13.3	13.8	13.5
6.25		13.9	13.8	13.9	13.9	13.3
12.5		13.6	14.1	13.9	13.9	13.5
25		14.1	14.1	13.7	13.9	13.5
50		13.7	13.9	13.5	13.5	13.8
100		14.3	13.9	13.5	13.4	15.7

CETIS Analytical Report

Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	12-9239-6549	**Endpoint:**	Mean Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	23 Dec-10 13:53	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	02-9483-5255	**Test Type:**	Growth-Germination	**Analyst:**	
Start Date:	06 Oct-10 13:27	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	08 Oct-10 14:00	**Species:**	Macrocystis pyrifera	**Brine:**	Not Applicable
Duration:	49h	**Source:**	David Gutoff	**Age:**	
Sample ID:	19-7186-9143	**Code:**	VCF1010044K	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	8h (5.4 °C)	**Station:**	ME-VR2		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	4.87%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	28.5	16	3	0.8883	Non-Significant Effect
		12.5	30	16	3	0.9446	Non-Significant Effect
		25	31	16	3	0.9676	Non-Significant Effect
		50	26	16	3	0.7237	Non-Significant Effect
		100	31	16	2	0.9676	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	13.72	10 - NL	Yes	Result Within Limits
PMSD	0.04865	NL - 0.2	No	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.788	2.908	0.0003	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.7509996	0.1501999	5	0.7523	0.5926	Non-Significant Effect
Error	4.792	0.1996667	24			
Total	5.542999	0.3498666	29			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	16	15.09	0.0068	Unequal Variances
Variances	Mod Levene Equality of Variance	2.039	4.248	0.1214	Equal Variances
Distribution	Shapiro-Wilk Normality	0.8478		0.0006	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.1775	0.1853	0.0169	Normal Distribution
Distribution	D'Agostino Skewness	3.147	2.576	0.0017	Non-normal Distribution
Distribution	D'Agostino Kurtosis	3.421	2.576	0.0006	Non-normal Distribution
Distribution	D'Agostino Omnibus	21.61	9.21	<0.0001	Non-normal Distribution

Mean Length Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	13.72	13.6	13.84	13.3	14.1	0.05931	0.3194	2.33%	0.0%
6.25		5	13.76	13.66	13.86	13.3	13.9	0.04842	0.2608	1.9%	-0.29%
12.5		5	13.8	13.71	13.89	13.5	14.1	0.04549	0.245	1.78%	-0.58%
25		5	13.86	13.76	13.96	13.5	14.1	0.04842	0.2608	1.88%	-1.02%
50		5	13.68	13.61	13.75	13.5	13.9	0.03322	0.1789	1.31%	0.29%
100		5	14.16	13.81	14.51	13.4	15.7	0.173	0.9317	6.58%	-3.21%

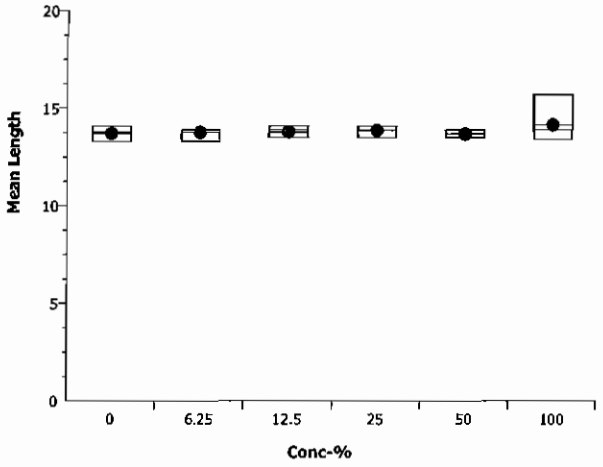
Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

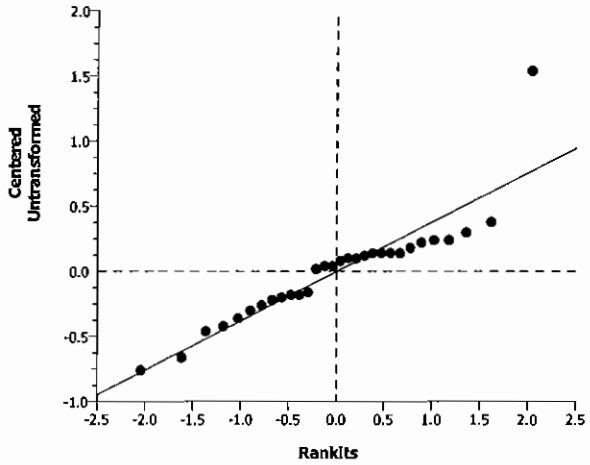
Analysis ID:	12-9239-6549	**Endpoint:**	Mean Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	23 Dec-10 13:53	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Mean Length Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	14.1	13.9	13.3	13.8	13.5
6.25		13.9	13.8	13.9	13.9	13.3
12.5		13.6	14.1	13.9	13.9	13.5
25		14.1	14.1	13.7	13.9	13.5
50		13.7	13.9	13.5	13.5	13.8
100		14.3	13.9	13.5	13.4	15.7

Graphics





Macrocystis Germination and Germ Tube Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	06-8954-5473	Endpoint:	Germination Rate	CETIS Version:	CETISv1.7.0
Analyzed:	23 Dec-10 13:52	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	02-9483-5255	Test Type:	Growth-Germination	Analyst:	
Start Date:	06 Oct-10 13:27	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	08 Oct-10 14:00	Species:	Macrocystis pyrifera	Brine:	Not Applicable
Duration:	49h	Source:	David Gutoff	Age:	
Sample ID:	19-7186-9143	Code:	VCF1010044K	Client:	VCWPD
Sample Date:	06 Oct-10 05:00	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	8h (5.4 °C)	Station:	ME-VR2		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	3.31%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-2.445	2.362	0.0556	0.9998	Non-Significant Effect
		12.5	-2.272	2.362	0.0556	0.9997	Non-Significant Effect
		25	-1.077	2.362	0.0556	0.9866	Non-Significant Effect
		50	-1.341	2.362	0.0556	0.9938	Non-Significant Effect
		100	-3.559	2.362	0.0556	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.93	0.7 - NL	Yes	Result Within Limits
PMSD	0.03313	NL - 0.2	No	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.468	2.908	0.2832	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.02134622	0.004269244	5	3.082	0.0274	Significant Effect
Error	0.03324961	0.0013854	24			
Total	0.05459582	0.005654644	29			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	7.628	15.09	0.1780	Equal Variances
Variances	Mod Levene Equality of Variance	0.7779	4.248	0.5784	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9565		0.2521	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1116	0.1853	0.4335	Normal Distribution
Distribution	D'Agostino Skewness	0.7953	2.576	0.4265	Normal Distribution
Distribution	D'Agostino Kurtosis	0.1911	2.576	0.8485	Normal Distribution
Distribution	D'Agostino Omnibus	0.669	9.21	0.7157	Normal Distribution

Macrocystis Germination and Germ Tube Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	06-8954-5473	**Endpoint:**	Germination Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	23 Dec-10 13:52	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Germination Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	0.93	0.9273	0.9327	0.92	0.94	0.001313	0.00707	0.76%	0.0%
6.25		5	0.956	0.9517	0.9603	0.94	0.97	0.002117	0.0114	1.19%	-2.8%
12.5		5	0.954	0.9482	0.9598	0.93	0.97	0.002816	0.01517	1.59%	-2.58%
25		5	0.942	0.937	0.947	0.92	0.95	0.002421	0.01304	1.38%	-1.29%
50		5	0.944	0.9366	0.9514	0.92	0.97	0.00362	0.01949	2.07%	-1.51%
100		5	0.964	0.9566	0.9714	0.95	0.99	0.00362	0.01949	2.02%	-3.66%

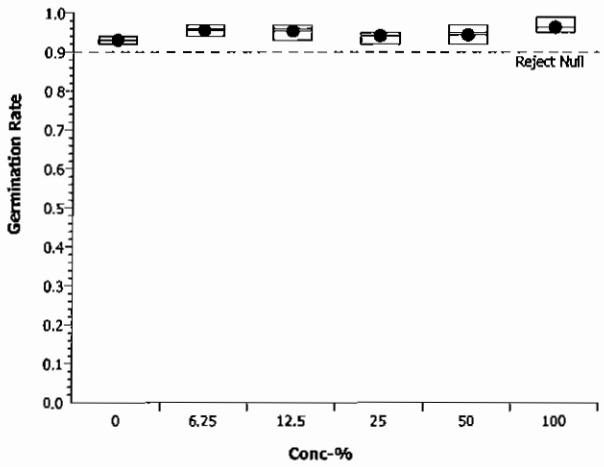
Angular (Corrected) Transformed Summary

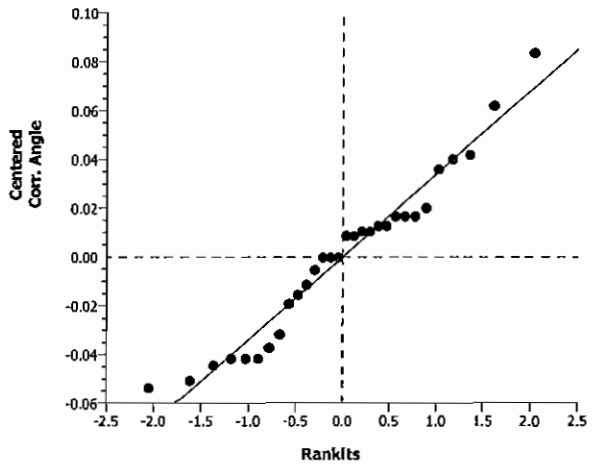
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	5	1.303	1.298	1.309	1.284	1.323	0.00258	0.01389	1.07%	0.0%
6.25		5	1.361	1.35	1.371	1.323	1.397	0.005156	0.02777	2.04%	-4.42%
12.5		5	1.357	1.343	1.37	1.303	1.397	0.006523	0.03513	2.59%	-4.1%
25		5	1.329	1.318	1.339	1.284	1.345	0.004955	0.02668	2.01%	-1.95%
50		5	1.335	1.318	1.351	1.284	1.397	0.008115	0.0437	3.27%	-2.42%
100		5	1.387	1.365	1.41	1.345	1.471	0.01097	0.0591	4.26%	-6.43%

Germination Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.93	0.92	0.93	0.94	0.93
6.25		0.96	0.95	0.94	0.97	0.96
12.5		0.96	0.97	0.96	0.93	0.95
25		0.95	0.95	0.94	0.92	0.95
50		0.97	0.92	0.93	0.95	0.95
100		0.95	0.99	0.98	0.95	0.95

Graphics





CETIS Analytical Report

Macrocystis Germination and Germ Tube Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	07-4324-6106	**Endpoint:**	Mean Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	23 Dec-10 13:53	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	02-9483-5255	**Test Type:**	Growth-Germination	**Analyst:**	
Start Date:	06 Oct-10 13:27	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	08 Oct-10 14:00	**Species:**	Macrocystis pyrifera	**Brine:**	Not Applicable
Duration:	49h	**Source:**	David Gutoff	**Age:**	
Sample ID:	19-7186-9143	**Code:**	VCF1010044K	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	8h (5.4 °C)	**Station:**	ME-VR2		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	13.72	10 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Length Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	13.72	13.3	14.1	0.05831	0.3194	2.33%	0.0%
6.25		5	13.76	13.3	13.9	0.04761	0.2608	1.9%	-0.29%
12.5		5	13.8	13.5	14.1	0.04472	0.245	1.78%	-0.58%
25		5	13.86	13.5	14.1	0.04761	0.2608	1.88%	-1.02%
50		5	13.68	13.5	13.9	0.03266	0.1789	1.31%	0.29%
100		5	14.16	13.4	15.7	0.1701	0.9317	6.58%	-3.21%

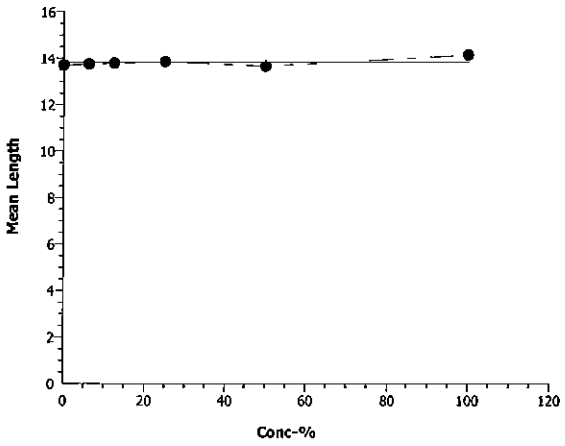
Mean Length Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	14.1	13.9	13.3	13.8	13.5
6.25		13.9	13.8	13.9	13.9	13.3
12.5		13.6	14.1	13.9	13.9	13.5
25		14.1	14.1	13.7	13.9	13.5
50		13.7	13.9	13.5	13.5	13.8
100		14.3	13.9	13.5	13.4	15.7

Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	07-4324-6106	**Endpoint:**	Mean Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	23 Dec-10 13:53	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Macrocystis Germination and Germ Tube Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	13-3330-3167	Endpoint:	Germination Rate	CETIS Version:	CETISv1.7.0
Analyzed:	23 Dec-10 13:52	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	02-9483-5255	Test Type:	Growth-Germination	Analyst:	
Start Date:	06 Oct-10 13:27	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	08 Oct-10 14:00	Species:	Macrocystis pyrifera	Brine:	Not Applicable
Duration:	49h	Source:	David Gutoff	Age:	
Sample ID:	19-7186-9143	Code:	VCF1010044K	Client:	VCWPD
Sample Date:	06 Oct-10 05:00	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	8h (5.4 °C)	Station:	ME-VR2		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.93	0.7 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.468	2.908	0.2832	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

Germination Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	5	0.93	0.92	0.94	0.001291	0.00707	0.76%	0.0%	465	500
6.25		5	0.956	0.94	0.97	0.002082	0.0114	1.19%	-2.8%	478	500
12.5		5	0.954	0.93	0.97	0.002769	0.01517	1.59%	-2.58%	477	500
25		5	0.942	0.92	0.95	0.00238	0.01304	1.38%	-1.29%	471	500
50		5	0.944	0.92	0.97	0.003559	0.01949	2.07%	-1.51%	472	500
100		5	0.964	0.95	0.99	0.003559	0.01949	2.02%	-3.66%	482	500

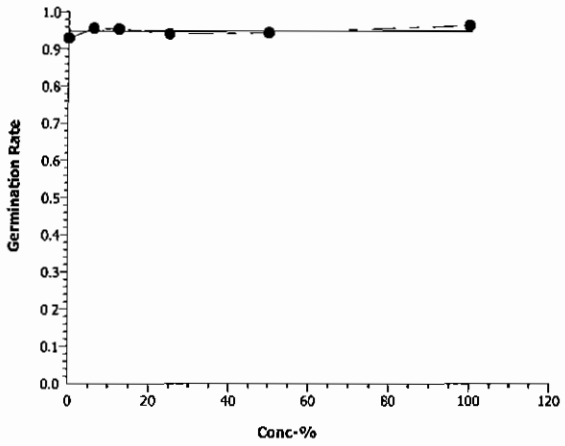
Germination Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.93	0.92	0.93	0.94	0.93
6.25		0.96	0.95	0.94	0.97	0.96
12.5		0.96	0.97	0.96	0.93	0.95
25		0.95	0.95	0.94	0.92	0.95
50		0.97	0.92	0.93	0.95	0.95
100		0.95	0.99	0.98	0.95	0.95

Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-3330-3167	**Endpoint:**	Germination Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	23 Dec-10 13:52	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	02-9483-5255	**Test Type:**	Growth-Germination	**Analyst:**	
Start Date:	06 Oct-10 13:27	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	08 Oct-10 14:00	**Species:**	Macrocystis pyrifera	**Brine:**	Not Applicable
Duration:	49h	**Source:**	David Gutoff	**Age:**	
Sample ID:	19-7186-9143	**Code:**	VCF1010044K	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	8h (5.4 °C)	**Station:**	ME-VR2		

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	6.15	5.839	6.461	5.5	6.8	0.1532	0.9192	14.95%	0
6.25		2	6.35	6.087	6.613	5.8	6.9	0.1296	0.7778	12.25%	0
12.5		2	6.3	6.109	6.491	5.9	6.7	0.09428	0.5657	8.98%	0
25		2	6.3	5.965	6.635	5.6	7	0.165	0.9899	15.71%	0
50		2	6.25	6.035	6.465	5.8	6.7	0.1061	0.6364	10.18%	0
100		2	6.25	6.035	6.465	5.8	6.7	0.1061	0.6364	10.18%	0
Overall		12	6.267			5.5	7				0 (0%)

Total Ammonia (N)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	7.95	7.926	7.974	7.9	8	0.01178	0.0707	0.89%	0
6.25		2	8	8	8	8	8	0	0	0.0%	0
12.5		2	8	8	8	8	8	0	0	0.0%	0
25		2	8	8	8	8	8	0	0	0.0%	0
50		2	8	8	8	8	8	0	0	0.0%	0
100		2	8.05	8.026	8.074	8	8.1	0.01179	0.07073	0.88%	0
Overall		12	8			7.9	8.1				0 (0%)

Salinity-ppt

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	34	34	34	34	34	0	0	0.0%	0
6.25		2	34	34	34	34	34	0	0	0.0%	0
12.5		2	34	34	34	34	34	0	0	0.0%	0
25		2	34	34	34	34	34	0	0	0.0%	0
50		2	34	34	34	34	34	0	0	0.0%	0
100		2	34	34	34	34	34	0	0	0.0%	0
Overall		12	34			34	34				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
6.25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
12.5		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
50		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
100		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
Overall		12	14.85			14.8	14.9				0 (0%)

Macrocystis Germination and Germ Tube Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2
0	Negative Contr	6.8	5.5
6.25		6.9	5.8
12.5		6.7	5.9
25		7	5.6
50		6.7	5.8
100		6.7	5.8

Total Ammonia (N)-mg/L

Conc-%	Control Type	1
0	Negative Contr	0
100		0

pH-Units

Conc-%	Control Type	1	2
0	Negative Contr	7.9	8
6.25		8	8
12.5		8	8
25		8	8
50		8	8
100		8.1	8

Salinity-ppt

Conc-%	Control Type	1	2
0	Negative Contr	34	34
6.25		34	34
12.5		34	34
25		34	34
50		34	34
100		34	34

Temperature-°C

Conc-%	Control Type	1	2
0	Negative Contr	14.8	14.9
6.25		14.8	14.9
12.5		14.8	14.9
25		14.8	14.9
50		14.8	14.9
100		14.8	14.9

aquatic bioassay & consulting laboratories, inc

January 31, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receving Waters to West Coast Estuarine Organisms, EPA/821/R-02-014.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-VR2
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.044

CHRONIC MENIDIA SURVIVAL AND GROWTH BIOASSAY

Survival	NOEC	=	100.00
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %
Biomass	NOEC	=	100.00 %
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	17-5633-5003	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:22	**Protocol:**	EPA/821/R-02-014 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 16:00	**Species:**	Menidia beryllina	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	7-10
Sample ID:	13-5680-2206	**Code:**	VCF1010044m	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 1
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	34h (5.4 °C)	**Station:**	MO-VR2		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
06-4421-0002	7d Survival Rate	100	>100	N/A	25.96%	1	Dunnett's Multiple Comparison Test
02-3555-9538	Mean Dry Biomass-mg	100	>100	N/A	28.33%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
00-6859-5561	7d Survival Rate	EC5	1.663	0.877	3.855	60.12	Linear Interpolation (ICPIN)
		EC10	3.327	1.754	7.71	30.06	
		EC15	4.99	2.631	N/A	20.04	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
14-7529-1639	Mean Dry Biomass-mg	IC5	1.694	0.8322	5.318	59.04	Linear Interpolation (ICPIN)
		IC10	3.387	1.664	N/A	29.52	
		IC15	5.081	2.496	N/A	19.68	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
00-6859-5561	7d Survival Rate	Control Resp	0.825	0.8 - NL	Yes	Result Within Limits
06-4421-0002	7d Survival Rate	Control Resp	0.825	0.8 - NL	Yes	Result Within Limits
02-3555-9538	Mean Dry Biomass-mg	Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits
14-7529-1639	Mean Dry Biomass-mg	Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits
02-3555-9538	Mean Dry Biomass-mg	PMSD	0.2833	0.11 - 0.28	Yes	Result Above Limit

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.825	0.8063	0.8437	0.8	0.9	0.009129	0.05	6.06%	0.0%
6.25		4	0.475	0.4392	0.5108	0.4	0.6	0.01748	0.09574	20.16%	42.42%
12.5		4	0.6	0.539	0.661	0.4	0.8	0.02981	0.1633	27.22%	27.27%
25		4	0.725	0.678	0.772	0.6	0.9	0.02297	0.1258	17.36%	12.12%
50		4	0.65	0.5785	0.7215	0.4	0.8	0.03496	0.1915	29.46%	21.21%
100		4	0.9	0.8695	0.9305	0.8	1	0.01491	0.08165	9.07%	-9.09%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.7135	0.69	0.737	0.638	0.792	0.01149	0.06292	8.82%	0.0%
6.25		4	0.401	0.3594	0.4426	0.264	0.525	0.02033	0.1113	27.77%	43.8%
12.5		4	0.5468	0.4965	0.597	0.454	0.746	0.02458	0.1347	24.63%	23.37%
25		4	0.5883	0.5725	0.604	0.54	0.628	0.007709	0.04222	7.18%	17.55%
50		4	0.5848	0.529	0.6405	0.365	0.695	0.02728	0.1494	25.55%	18.04%
100		4	0.7885	0.7283	0.8487	0.668	1.026	0.02944	0.1613	20.45%	-10.51%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8	0.9	0.8
6.25		0.4	0.5	0.6	0.4
12.5		0.6	0.8	0.6	0.4
25		0.6	0.9	0.7	0.7
50		0.8	0.4	0.6	0.8
100		0.9	0.8	0.9	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.638	0.71	0.792	0.714
6.25		0.369	0.446	0.525	0.264
12.5		0.508	0.746	0.479	0.454
25		0.619	0.628	0.54	0.566
50		0.695	0.365	0.656	0.623
100		0.719	0.668	0.741	1.026

CETIS Analytical Report

Test Code: 00-5771-7855/VCF1010044men

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	02-3555-9538	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 15:07	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	17-5633-5003	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:22	**Protocol:**	EPA/821/R-02-014 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 16:00	**Species:**	Menidia beryllina	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	7-10
Sample ID:	13-5680-2206	**Code:**	VCF1010044m	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 1
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	34h (5.4 °C)	**Station:**	MO-VR2		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	28.33%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25*	3.722	2.407	0.2021	0.0033	Significant Effect
		12.5	1.986	2.407	0.2021	0.1068	Non-Significant Effect
		25	1.492	2.407	0.2021	0.2306	Non-Significant Effect
		50	1.533	2.407	0.2021	0.2174	Non-Significant Effect
		100	-0.8932	2.407	0.2021	0.9771	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits
PMSD	0.2833	0.11 - 0.28	Yes	Result Above Limit

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.261	2.802	0.4126	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.3645417	0.07290834	5	5.171	0.0041	Significant Effect
Error	0.2538103	0.01410057	18			
Total	0.6183519	0.08700891	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.694	15.09	0.3372	Equal Variances
Variances	Mod Levene Equality of Variance	0.3224	4.248	0.8929	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9817		0.9255	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.08419	0.2056	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.7744	2.576	0.4387	Normal Distribution
Distribution	D'Agostino Kurtosis	0.6647	2.576	0.5062	Normal Distribution
Distribution	D'Agostino Omnibus	1.042	9.21	0.5940	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.7135	0.6896	0.7374	0.638	0.792	0.01168	0.06292	8.82%	0.0%
6.25		4	0.401	0.3586	0.4434	0.264	0.525	0.02068	0.1113	27.77%	43.8%
12.5		4	0.5468	0.4955	0.598	0.454	0.746	0.025	0.1347	24.63%	23.37%
25		4	0.5883	0.5722	0.6043	0.54	0.628	0.007841	0.04222	7.18%	17.55%
50		4	0.5848	0.5279	0.6416	0.365	0.695	0.02775	0.1494	25.55%	18.04%
100		4	0.7885	0.7272	0.8498	0.668	1.026	0.02994	0.1613	20.45%	-10.51%

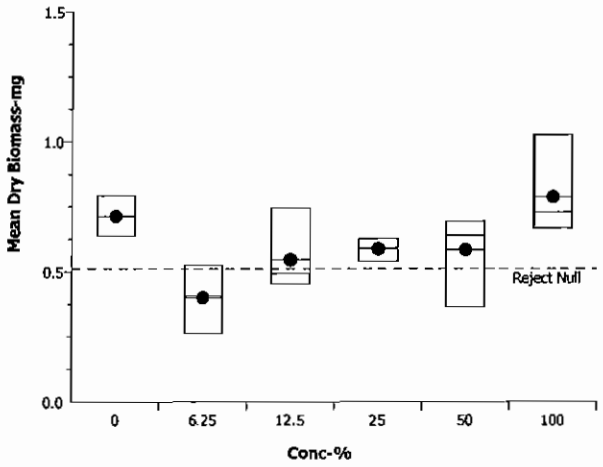
Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

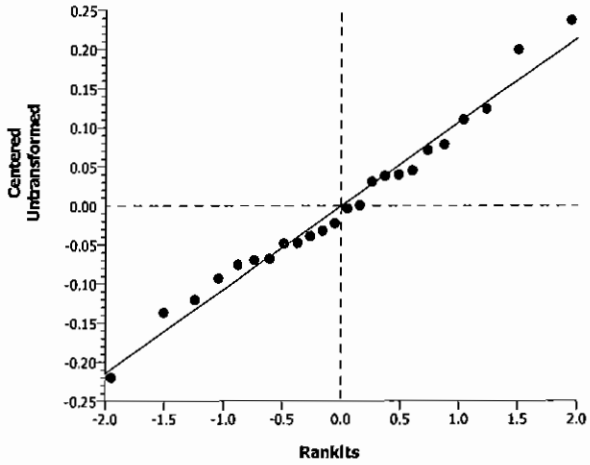
Analysis ID:	02-3555-9538	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 15:07	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.638	0.71	0.792	0.714
6.25		0.369	0.446	0.525	0.264
12.5		0.508	0.746	0.479	0.454
25		0.619	0.628	0.54	0.566
50		0.695	0.365	0.656	0.623
100		0.719	0.668	0.741	1.026

Graphics





Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	06-4421-0002	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	10 Jan-11 15:06	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	17-5633-5003	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:22	Protocol:	EPA/821/R-02-014 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Menidia beryllina	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	7-10
Sample ID:	13-5680-2206	Code:	VCF1010044m	Client:	VCWPD
Sample Date:	06 Oct-10 05:00	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	34h (5.4 °C)	Station:	MO-VR2		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	25.96%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25*	3.75	2.407	0.2455	0.0032	Significant Effect
		12.5*	2.467	2.407	0.2455	0.0446	Significant Effect
		25	1.111	2.407	0.2455	0.3740	Non-Significant Effect
		50	1.925	2.407	0.2455	0.1182	Non-Significant Effect
		100	-1.095	2.407	0.2455	0.9867	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.825	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.05	2.802	0.7894	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.632165	0.126433	5	6.079	0.0018	Significant Effect
Error	0.3743861	0.02079923	18			
Total	1.006551	0.1472322	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.543	15.09	0.6170	Equal Variances
Variances	Mod Levene Equality of Variance	0.7493	4.248	0.5972	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9501		0.2729	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1821	0.2056	0.0385	Normal Distribution
Distribution	D'Agostino Skewness	0.1048	2.576	0.9165	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2758	2.576	0.7827	Normal Distribution
Distribution	D'Agostino Omnibus	0.08704	9.21	0.9574	Normal Distribution

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	06-4421-0002	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 15:06	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.825	0.806	0.844	0.8	0.9	0.009285	0.05	6.06%	0.0%
6.25		4	0.475	0.4386	0.5114	0.4	0.6	0.01778	0.09574	20.16%	42.42%
12.5		4	0.6	0.5379	0.6621	0.4	0.8	0.03032	0.1633	27.22%	27.27%
25		4	0.725	0.6771	0.7729	0.6	0.9	0.02337	0.1258	17.36%	12.12%
50		4	0.65	0.5772	0.7228	0.4	0.8	0.03556	0.1915	29.46%	21.21%
100		4	0.9	0.8689	0.9311	0.8	1	0.01516	0.08165	9.07%	-9.09%

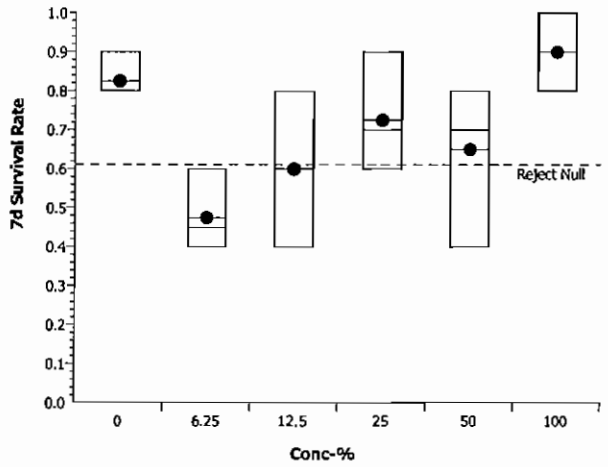
Angular (Corrected) Transformed Summary

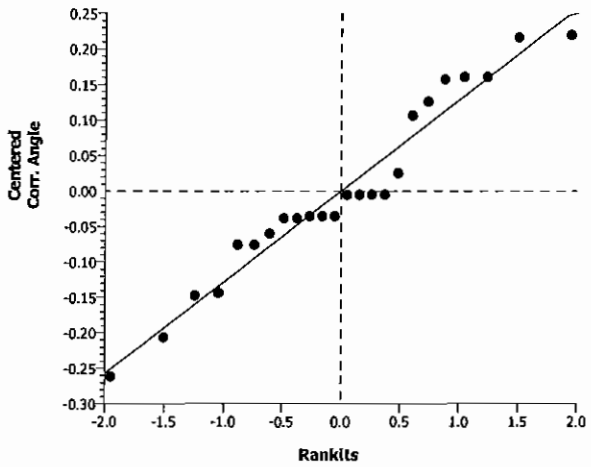
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.143	1.116	1.17	1.107	1.249	0.01317	0.07095	6.21%	0.0%
6.25		4	0.7602	0.7236	0.7969	0.6847	0.8861	0.0179	0.09639	12.68%	33.47%
12.5		4	0.891	0.8254	0.9566	0.6847	1.107	0.03204	0.1725	19.37%	22.02%
25		4	1.029	0.9705	1.088	0.8861	1.249	0.02871	0.1546	15.02%	9.91%
50		4	0.9463	0.869	1.024	0.6847	1.107	0.03772	0.2031	21.47%	17.18%
100		4	1.254	1.207	1.302	1.107	1.412	0.02314	0.1246	9.94%	-9.78%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8	0.9	0.8
6.25		0.4	0.5	0.6	0.4
12.5		0.6	0.8	0.6	0.4
25		0.6	0.9	0.7	0.7
50		0.8	0.4	0.6	0.8
100		0.9	0.8	0.9	1

Graphics





CETIS Analytical Report

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	14-7529-1639	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	10 Jan-11 15:06	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	17-5633-5003	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:22	Protocol:	EPA/821/R-02-014 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Menidia beryllina	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	7-10
Sample ID:	13-5680-2206	Code:	VCF1010044m	Client:	VCWPD
Sample Date:	06 Oct-10 05:00	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	34h (5.4 °C)	Station:	MO-VR2		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2895625	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.261	2.802	0.4126	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	1.694	0.8322	5.318	59.04	18.8	120.2
IC10	3.387	1.664	N/A	29.52	N/A	60.08
IC15	5.081	2.496	N/A	19.68	N/A	40.06
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.7135	0.638	0.792	0.01149	0.06292	8.82%	0.0%
6.25		4	0.401	0.264	0.525	0.02033	0.1113	27.77%	43.8%
12.5		4	0.5468	0.454	0.746	0.02458	0.1347	24.63%	23.37%
25		4	0.5883	0.54	0.628	0.007709	0.04222	7.18%	17.55%
50		4	0.5848	0.365	0.695	0.02728	0.1494	25.55%	18.04%
100		4	0.7885	0.668	1.026	0.02944	0.1613	20.45%	-10.51%

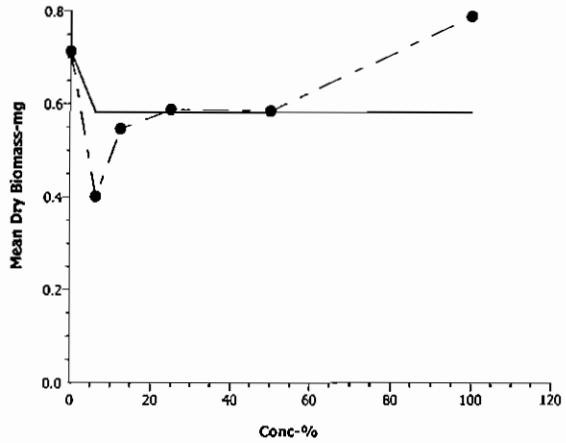
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.638	0.71	0.792	0.714
6.25		0.369	0.446	0.525	0.264
12.5		0.508	0.746	0.479	0.454
25		0.619	0.628	0.54	0.566
50		0.695	0.365	0.656	0.623
100		0.719	0.668	0.741	1.026

Inland Silverside 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-7529-1639	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 15:06	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-6859-5561	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	10 Jan-11 15:06	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	17-5633-5003	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:22	Protocol:	EPA/821/R-02-014 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Menidia beryllina	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	7-10
Sample ID:	13-5680-2206	Code:	VCF1010044m	Client:	VCWPD
Sample Date:	06 Oct-10 05:00	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	34h (5.4 °C)	Station:	MO-VR2		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2895625	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.825	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.05	2.802	0.7894	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	1.663	0.877	3.855	60.12	25.94	114
EC10	3.327	1.754	7.71	30.06	12.97	57.01
EC15	4.99	2.631	N/A	20.04	N/A	38.01
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.825	0.8	0.9	0.009129	0.05	6.06%	0.0%	33	40
6.25		4	0.475	0.4	0.6	0.01748	0.09574	20.16%	42.42%	19	40
12.5		4	0.6	0.4	0.8	0.02981	0.1633	27.22%	27.27%	24	40
25		4	0.725	0.6	0.9	0.02297	0.1258	17.36%	12.12%	29	40
50		4	0.65	0.4	0.8	0.03496	0.1915	29.46%	21.21%	26	40
100		4	0.9	0.8	1	0.01491	0.08165	9.07%	-9.09%	36	40

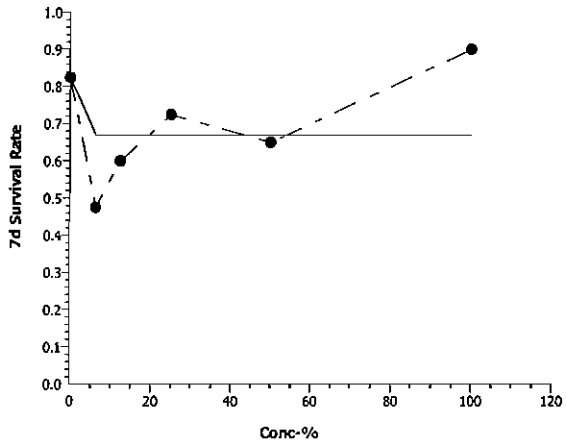
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8	0.9	0.8
6.25		0.4	0.5	0.6	0.4
12.5		0.6	0.8	0.6	0.4
25		0.6	0.9	0.7	0.7
50		0.8	0.4	0.6	0.8
100		0.9	0.8	0.9	1

Inland Silverside 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-6859-5561	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 15:06	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Inland Silverside 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	17-5633-5003	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:22	**Protocol:**	EPA/821/R-02-014 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 16:00	**Species:**	Menidia beryllina	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	7-10
Sample ID:	13-5680-2206	**Code:**	VCF1010044m	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 1
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	34h (5.4 °C)	**Station:**	MO-VR2		

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	6.375	6.213	6.537	5.6	6.9	0.07956	0.4773	7.49%	0
6.25		8	6.425	6.278	6.572	5.6	6.9	0.07224	0.4334	6.75%	0
12.5		8	6.1	5.956	6.244	5.6	6.7	0.07071	0.4243	6.96%	0
25		8	6.463	6.318	6.607	5.6	6.8	0.07123	0.4274	6.61%	0
50		8	6.288	6.116	6.459	5.5	6.8	0.08472	0.5083	8.09%	0
100		8	6.213	6.092	6.333	5.6	6.5	0.05939	0.3563	5.74%	0
Overall		48	6.31			5.5	6.9				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.6	7.517	7.683	7.1	7.8	0.04083	0.245	3.22%	0
6.25		8	7.663	7.593	7.732	7.2	7.8	0.03443	0.2066	2.7%	0
12.5		8	7.65	7.582	7.718	7.2	7.8	0.03333	0.2	2.61%	0
25		8	7.65	7.582	7.718	7.2	7.8	0.03333	0.2	2.61%	0
50		8	7.675	7.628	7.722	7.4	7.8	0.02315	0.1389	1.81%	0
100		8	7.8	7.782	7.818	7.7	7.9	0.00891	0.05346	0.69%	0
Overall		48	7.673			7.1	7.9				0 (0%)

Salinity-ppt

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	34	34	34	34	34	0	0	0.0%	0
6.25		8	34	34	34	34	34	0	0	0.0%	0
12.5		8	34	34	34	34	34	0	0	0.0%	0
25		8	34	34	34	34	34	0	0	0.0%	0
50		8	34	34	34	34	34	0	0	0.0%	0
100		8	34	34	34	34	34	0	0	0.0%	0
Overall		48	34			34	34				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.14	24.11	24.17	24	24.3	0.01526	0.09153	0.38%	0
6.25		8	24.06	24.05	24.08	24	24.1	0.008602	0.05161	0.21%	0
12.5		8	24.08	24.06	24.09	24	24.1	0.007683	0.0461	0.19%	0
25		8	24.08	24.06	24.09	24	24.1	0.007683	0.0461	0.19%	0
50		8	24.06	24.05	24.08	24	24.1	0.008602	0.05161	0.21%	0
100		8	24.05	24.02	24.08	24	24.2	0.01542	0.09255	0.38%	0
Overall		48	24.08			24	24.3				0 (0%)

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	5.6	6.7	6.9	6.9	6.3	6.6	6	6
6.25		5.6	6.7	6.9	6.7	6.8	6.3	6.2	6.2
12.5		5.6	6.7	5.8	6.7	6.2	6.2	5.8	5.8
25		5.6	6.7	6.7	6.8	6.8	6.7	6.2	6.2
50		5.6	6.6	6.8	6.7	6.7	6.2	6.2	5.5
100		5.6	5.8	6.1	6.2	6.5	6.5	6.5	6.5

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7.6	7.6	7.8	7.8	7.4	7.8	7.1
6.25		7.8	7.6	7.6	7.8	7.8	7.7	7.8	7.2
12.5		7.8	7.6	7.6	7.7	7.8	7.7	7.8	7.2
25		7.8	7.6	7.6	7.7	7.8	7.7	7.8	7.2
50		7.8	7.6	7.6	7.7	7.8	7.7	7.8	7.4
100		7.8	7.8	7.9	7.8	7.7	7.8	7.8	7.8

Salinity-ppt

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	34	34	34	34	34	34	34	34
6.25		34	34	34	34	34	34	34	34
12.5		34	34	34	34	34	34	34	34
25		34	34	34	34	34	34	34	34
50		34	34	34	34	34	34	34	34
100		34	34	34	34	34	34	34	34

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.2	24.1	24.1	24.1	24.1	24.2	24.3
6.25		24	24.1	24.1	24.1	24.1	24	24	24.1
12.5		24	24.1	24.1	24.1	24.1	24	24.1	24.1
25		24	24.1	24.1	24.1	24.1	24	24.1	24.1
50		24	24.1	24.1	24.1	24	24	24.1	24.1
100		24	24.2	24.2	24	24	24	24	24

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-OJA
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.045

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	02-4746-8318	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:34	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-2286-9501	Code:	VCF1010045f	Client:	VCWPD
Sample Date:	06 Oct-10 07:40	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	32h (5.4 °C)	Station:	MO-OJA		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
00-6201-5073	7d Survival Rate	100	>100	N/A	4.53%	1	Steel Many-One Rank Test
09-6671-7168	Mean Dry Biomass-mg	100	>100	N/A	23.97%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
09-2428-6294	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
03-8975-9246	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
00-6201-5073	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
09-2428-6294	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
03-8975-9246	Mean Dry Biomass-mg	Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
09-6671-7168	Mean Dry Biomass-mg	Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
09-6671-7168	Mean Dry Biomass-mg	PMSD	0.2397	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	-1.7%
12.5		4	1	1	1	1	1	0	0	0.0%	-1.7%
25		4	1	1	1	1	1	0	0	0.0%	-1.7%
50		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	1.7%
100		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	1.7%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.3231	0.3582	0.308	0.4087	0.008576	0.04697	13.79%	0.0%
6.25		4	0.401	0.3841	0.4179	0.3447	0.4553	0.008257	0.04522	11.28%	-17.71%
12.5		4	0.378	0.3543	0.4017	0.284	0.4167	0.0116	0.06352	16.8%	-10.96%
25		4	0.3945	0.3839	0.4051	0.3633	0.4227	0.005182	0.02839	7.2%	-15.8%
50		4	0.396	0.3828	0.4092	0.3713	0.4467	0.006435	0.03525	8.9%	-16.24%
100		4	0.3832	0.3611	0.4052	0.326	0.4367	0.01077	0.05896	15.39%	-12.48%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		1	1	1	1
50		1	1	0.9333	0.9333
100		0.9333	1	0.9333	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
6.25		0.404	0.4	0.4553	0.3447
12.5		0.4167	0.3947	0.284	0.4167
25		0.4227	0.378	0.414	0.3633
50		0.3727	0.4467	0.3713	0.3933
100		0.4367	0.4313	0.3387	0.326

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-6671-7168	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	06 Jan-11 11:21	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	02-4746-8318	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:34	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-2286-9501	Code:	VCF1010045f	Client:	VCWPD
Sample Date:	06 Oct-10 07:40	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	32h (5.4 °C)	Station:	MO-OJA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	23.97%

Dunnett's Multiple Comparison Test

Control	vs Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control	6.25	-1.778	2.407	0.08166	0.9982	Non-Significant Effect
	12.5	-1.1	2.407	0.08166	0.9869	Non-Significant Effect
	25	-1.587	2.407	0.08166	0.9968	Non-Significant Effect
	50	-1.631	2.407	0.08166	0.9972	Non-Significant Effect
	100	-1.253	2.407	0.08166	0.9915	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
PMSD	0.2397	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.215	2.802	0.4789	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.009755036	0.001951007	5	0.8476	0.5340	Non-Significant Effect
Error	0.041434	0.002301889	18			
Total	0.05118904	0.004252896	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	2.266	15.09	0.8112	Equal Variances
Variances	Mod Levene Equality of Variance	0.4214	4.248	0.8278	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9665		0.5826	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1105	0.2056	0.6481	Normal Distribution
Distribution	D'Agostino Skewness	0.5401	2.576	0.5891	Normal Distribution
Distribution	D'Agostino Kurtosis	0.6522	2.576	0.5143	Normal Distribution
Distribution	D'Agostino Omnibus	0.717	9.21	0.6987	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.3228	0.3585	0.308	0.4087	0.008723	0.04697	13.79%	0.0%
6.25		4	0.401	0.3838	0.4182	0.3447	0.4553	0.008398	0.04522	11.28%	-17.71%
12.5		4	0.378	0.3538	0.4022	0.284	0.4167	0.0118	0.06352	16.8%	-10.96%
25		4	0.3945	0.3837	0.4053	0.3633	0.4227	0.005271	0.02839	7.2%	-15.8%
50		4	0.396	0.3826	0.4094	0.3713	0.4467	0.006545	0.03525	8.9%	-16.24%
100		4	0.3832	0.3607	0.4056	0.326	0.4367	0.01095	0.05896	15.39%	-12.48%

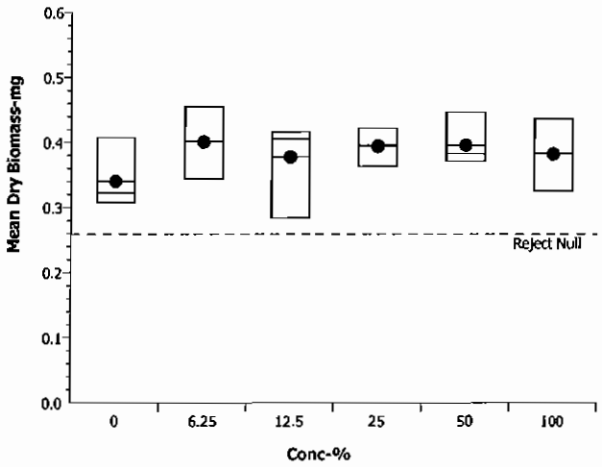
Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

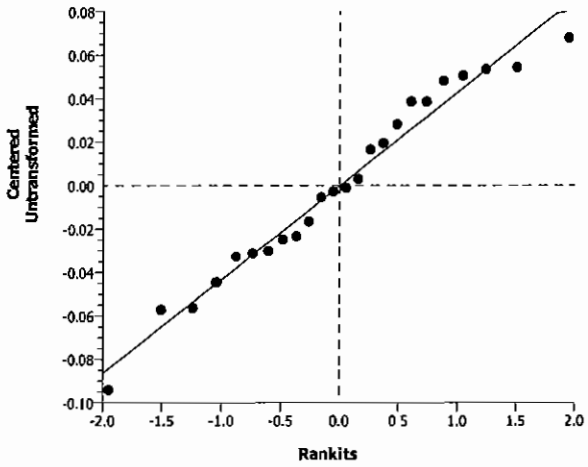
Analysis ID:	09-6671-7168	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Jan-11 11:21	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
6.25		0.404	0.4	0.4553	0.3447
12.5		0.4167	0.3947	0.284	0.4167
25		0.4227	0.378	0.414	0.3633
50		0.3727	0.4467	0.3713	0.3933
100		0.4367	0.4313	0.3387	0.326

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-6201-5073	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Jan-11 11:21	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	02-4746-8318	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:34	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 16:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	06-2286-9501	**Code:**	VCF1010045f	**Client:**	VCWPD
Sample Date:	06 Oct-10 07:40	**Material:**	Sample Water	**Project:**	Event 1
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	32h (5.4 °C)	**Station:**	MO-OJA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	4.53%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	20	10	1	0.9516	Non-Significant Effect
		12.5	20	10	1	0.9516	Non-Significant Effect
		25	20	10	1	0.9516	Non-Significant Effect
		50	16	10	2	0.6105	Non-Significant Effect
		100	16	10	2	0.6105	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.169	2.802	0.5529	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.02095734	0.004191468	5	1.582	0.2155	Non-Significant Effect
Error	0.04769601	0.002649779	18			
Total	0.06865335	0.006841247	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	5.8	4.248	0.0023	Unequal Variances
Distribution	Shapiro-Wilk Normality	0.8693		0.0051	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.2917	0.2056	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	0.9512	2.576	0.3415	Normal Distribution
Distribution	D'Agostino Kurtosis	0.03004	2.576	0.9760	Normal Distribution
Distribution	D'Agostino Omnibus	0.9057	9.21	0.6358	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-6201-5073	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Jan-11 11:21	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	-1.7%
12.5		4	1	1	1	1	1	0	0	0.0%	-1.7%
25		4	1	1	1	1	1	0	0	0.0%	-1.7%
50		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	1.7%
100		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	1.7%

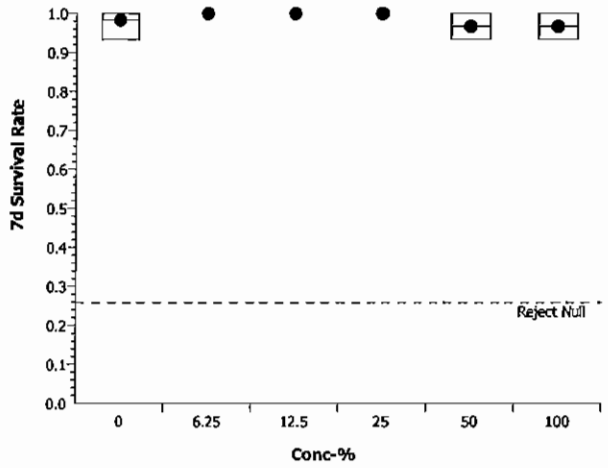
Angular (Corrected) Transformed Summary

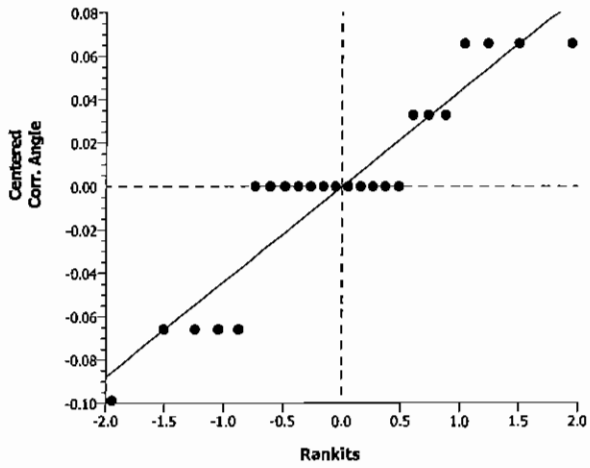
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	0.0%
6.25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-2.34%
12.5		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-2.34%
25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-2.34%
50		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	2.34%
100		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	2.34%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		1	1	1	1
50		1	1	0.9333	0.9333
100		0.9333	1	0.9333	1

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	03-8975-9246	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	06 Jan-11 11:21	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	02-4746-8318	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:34	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-2286-9501	Code:	VCF1010045f	Client:	VCWPD
Sample Date:	06 Oct-10 07:40	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	32h (5.4 °C)	Station:	MO-OJA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2895625	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.215	2.802	0.4789	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.308	0.4087	0.008576	0.04697	13.79%	0.0%
6.25		4	0.401	0.3447	0.4553	0.008257	0.04522	11.28%	-17.71%
12.5		4	0.378	0.284	0.4167	0.0116	0.06352	16.8%	-10.96%
25		4	0.3945	0.3633	0.4227	0.005182	0.02839	7.2%	-15.8%
50		4	0.396	0.3713	0.4467	0.006435	0.03525	8.9%	-16.24%
100		4	0.3832	0.326	0.4367	0.01077	0.05896	15.39%	-12.48%

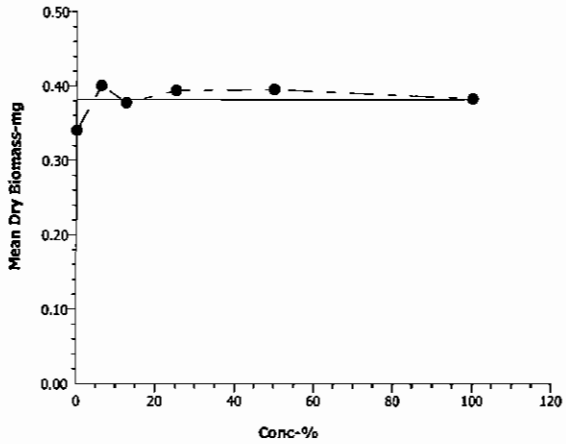
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
6.25		0.404	0.4	0.4553	0.3447
12.5		0.4167	0.3947	0.284	0.4167
25		0.4227	0.378	0.414	0.3633
50		0.3727	0.4467	0.3713	0.3933
100		0.4367	0.4313	0.3387	0.326

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	03-8975-9246	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Jan-11 11:21	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	09-2428-6294	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Jan-11 11:21	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	02-4746-8318	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:34	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 16:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	06-2286-9501	**Code:**	VCF1010045f	**Client:**	VCWPD
Sample Date:	06 Oct-10 07:40	**Material:**	Sample Water	**Project:**	Event 1
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	32h (5.4 °C)	**Station:**	MO-OJA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2895625	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.169	2.802	0.5529	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9833	0.9333	1	0.006086	0.03333	3.39%	0.0%	59	60
6.25		4	1	1	1	0	0	0.0%	-1.7%	60	60
12.5		4	1	1	1	0	0	0.0%	-1.7%	60	60
25		4	1	1	1	0	0	0.0%	-1.7%	60	60
50		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	1.7%	58	60
100		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	1.7%	58	60

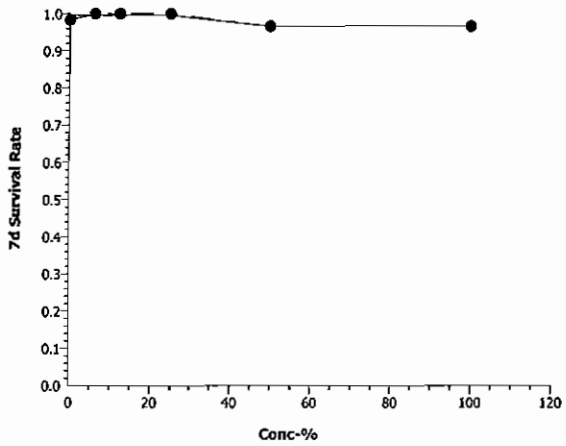
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		1	1	1	1
50		1	1	0.9333	0.9333
100		0.9333	1	0.9333	1

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	09-2428-6294	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Jan-11 11:21	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	02-4746-8318	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:34	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-2286-9501	Code:	VCF1010045f	Client:	VCWPD
Sample Date:	06 Oct-10 07:40	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	32h (5.4 °C)	Station:	MO-OJA		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	82	82	82	82	82	0	0	0.0%	0
Overall		16	71.38			60	82				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	7.2	6.998	7.402	6.4	7.9	0.0996	0.5976	8.3%	0
12.5		8	297.5	296.6	298.4	294	300	0.4364	2.619	0.88%	0
25		8	282.4	279.3	285.5	270	298	1.522	9.133	3.23%	0
50		8	228	226.5	229.5	222	235	0.74	4.44	1.95%	0
100		8	134.1	130.4	137.9	125	154	1.84	11.04	8.23%	0
Overall		48	214.7			6.4	361				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.338	7.166	7.509	6.6	7.9	0.08449	0.5069	6.91%	0
12.5		8	7.325	7.093	7.557	6.2	7.9	0.1143	0.6861	9.37%	0
25		8	7.338	7.1	7.575	6.2	8	0.1168	0.7009	9.55%	0
50		8	7.35	7.129	7.571	6.3	8	0.1087	0.6525	8.88%	0
100		8	7.35	7.138	7.562	6.4	8	0.1047	0.6279	8.54%	0
Overall		48	7.385			6.2	8				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	84.75	83.65	85.85	83	90	0.5401	3.24	3.82%	0
100		8	106	106	106	106	106	0	0	0.0%	0
Overall		16	95.38			83	106				0 (0%)

Total Ammonia (N)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.95	7.893	8.007	7.7	8.3	0.02817	0.169	2.13%	0
6.25		8	7.713	7.649	7.776	7.5	7.9	0.03142	0.1885	2.44%	0
12.5		8	7.688	7.632	7.743	7.5	7.9	0.02737	0.1642	2.14%	0
25		8	7.675	7.622	7.728	7.5	7.9	0.02635	0.1581	2.06%	0
50		8	24.11	24.07	24.16	24	24.4	0.0226	0.1356	0.56%	0
100		8	7.7	7.656	7.744	7.5	7.9	0.02182	0.1309	1.7%	0
Overall		48	10.47			7.5	24.4				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.26	24.17	24.35	24	24.8	0.04449	0.2669	1.1%	0
6.25		8	24.21	24.15	24.27	24.1	24.6	0.02878	0.1727	0.71%	0
12.5		8	24.19	24.13	24.25	24	24.6	0.03012	0.1807	0.75%	0
25		8	24.16	24.11	24.21	24	24.5	0.02509	0.1505	0.62%	0
50		8	24.11	24.07	24.16	24	24.4	0.0226	0.1356	0.56%	0
100		8	24.15	24.1	24.2	24	24.4	0.02519	0.1512	0.63%	0
Overall		48	24.18			24	24.8				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		82	82	82	82	82	82	82	82

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		6.6	7.8	7.8	6.9	7.9	6.8	7.4	6.4
12.5		294	297	299	300	300	300	296	294
25		270	273	285	283	285	289	298	276
50		222	224	225	229	229	227	235	233
100		125	125	130	129	130	131	154	149

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	7.8	7.8	6.9	7.9	6.8	7.4	7.5
12.5		6.7	7.9	7.8	7.9	7.9	6.7	7.5	6.2
25		6.8	8	7.9	7.8	7.9	6.6	7.5	6.2
50		6.8	8	7.9	7.8	7.8	6.7	7.5	6.3
100		6.8	8	7.9	7.8	7.8	6.7	7.4	6.4

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	83	83
100		106	106	106	106	106	106	106	106

Total Ammonia (N)-mg/L

Conc-%	Control Type	1
0	Negative Contr	0
100		0

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.3	7.7
6.25		7.5	7.5	7.8	7.9	7.9	7.9	7.5	7.7
12.5		7.5	7.5	7.8	7.8	7.8	7.9	7.5	7.7
25		7.5	7.5	7.7	7.8	7.8	7.9	7.5	7.7
50		24.4	24	24	24.2	24.1	24	24.1	24.1
100		7.6	7.5	7.7	7.8	7.8	7.9	7.6	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.8	24.5	24.1	24.1	24.1	24	24.2	24.3
6.25		24.6	24.2	24.1	24.1	24.1	24.1	24.2	24.3
12.5		24.6	24.1	24.1	24.2	24.2	24	24.1	24.2
25		24.5	24.1	24.1	24.2	24.1	24	24.1	24.2
50		24.4	24	24	24.2	24.1	24	24.1	24.1
100		24.4	24	24	24.2	24.3	24	24.2	24.1

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MEI
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.046

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

For: Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	13-9837-4047	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:15	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 16:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-6347-0665	**Code:**	VCF1010046f	**Client:**	VCWPD
Sample Date:	06 Oct-10 06:30	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	33h (5.4 °C)	**Station:**	MO-MEI		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
19-5348-1604	7d Survival Rate	100	>100	N/A	8.01%	1	Dunnett's Multiple Comparison Test
02-7836-9207	Mean Dry Biomass-mg	100	>100	N/A	18.48%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
19-7454-5061	7d Survival Rate	EC5	11.21	8.73	N/A	8.922	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
19-4024-1762	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
19-5348-1604	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
19-7454-5061	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
02-7836-9207	Mean Dry Biomass-mg	Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
19-4024-1762	Mean Dry Biomass-mg	Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
02-7836-9207	Mean Dry Biomass-mg	PMSD	0.1848	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	-1.7%
12.5		4	0.8667	0.8379	0.8954	0.8	0.9333	0.01405	0.07698	8.88%	11.86%
25		4	0.95	0.9262	0.9738	0.8667	1	0.01165	0.06383	6.72%	3.39%
50		4	0.9333	0.913	0.9537	0.8667	1	0.009938	0.05443	5.83%	5.09%
100		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	1.7%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.3231	0.3582	0.308	0.4087	0.008576	0.04697	13.79%	0.0%
6.25		4	0.3763	0.3537	0.399	0.32	0.462	0.01106	0.06057	16.1%	-10.47%
12.5		4	0.3277	0.318	0.3373	0.3053	0.3533	0.004734	0.02593	7.91%	3.82%
25		4	0.3382	0.3302	0.3461	0.308	0.358	0.003888	0.02129	6.3%	0.73%
50		4	0.3643	0.3521	0.3766	0.3433	0.4133	0.006	0.03286	9.02%	-6.95%
100		4	0.3553	0.3511	0.3596	0.3393	0.366	0.002087	0.01143	3.22%	-4.31%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	1
6.25		1	1	1	1
12.5		0.8	0.9333	0.8	0.9333
25		0.8667	1	0.9333	1
50		0.8667	0.9333	1	0.9333
100		1	0.9333	0.9333	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
6.25		0.356	0.32	0.3673	0.462
12.5		0.3533	0.3053	0.3467	0.3053
25		0.308	0.358	0.3447	0.342
50		0.3487	0.352	0.3433	0.4133
100		0.36	0.366	0.3393	0.356

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	02-7836-9207	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 11:09	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	13-9837-4047	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:15	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 16:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-6347-0665	**Code:**	VCF1010046f	**Client:**	VCWPD
Sample Date:	06 Oct-10 06:30	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	33h (5.4 °C)	**Station:**	MO-MEI		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	18.48%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-1.363	2.407	0.06297	0.9938	Non-Significant Effect
		12.5	0.497	2.407	0.06297	0.6489	Non-Significant Effect
		25	0.09557	2.407	0.06297	0.8036	Non-Significant Effect
		50	-0.9047	2.407	0.06297	0.9777	Non-Significant Effect
		100	-0.5607	2.407	0.06297	0.9475	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
PMSD	0.1848	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.618	2.802	0.1115	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.006608837	0.001321767	5	0.9658	0.4645	Non-Significant Effect
Error	0.02463544	0.001368636	18			
Total	0.03124428	0.002690403	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	7.801	15.09	0.1675	Equal Variances
Variances	Mod Levene Equality of Variance	0.689	4.248	0.6381	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9224		0.0660	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1296	0.2056	0.3683	Normal Distribution
Distribution	D'Agostino Skewness	2.155	2.576	0.0311	Normal Distribution
Distribution	D'Agostino Kurtosis	1.367	2.576	0.1716	Normal Distribution
Distribution	D'Agostino Omnibus	6.514	9.21	0.0385	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.3228	0.3585	0.308	0.4087	0.008723	0.04697	13.79%	0.0%
6.25		4	0.3763	0.3533	0.3994	0.32	0.462	0.01125	0.06057	16.1%	-10.47%
12.5		4	0.3277	0.3178	0.3375	0.3053	0.3533	0.004815	0.02593	7.91%	3.82%
25		4	0.3382	0.3301	0.3463	0.308	0.358	0.003954	0.02129	6.3%	0.73%
50		4	0.3643	0.3518	0.3768	0.3433	0.4133	0.006102	0.03286	9.02%	-6.95%
100		4	0.3553	0.351	0.3597	0.3393	0.366	0.002123	0.01143	3.22%	-4.31%

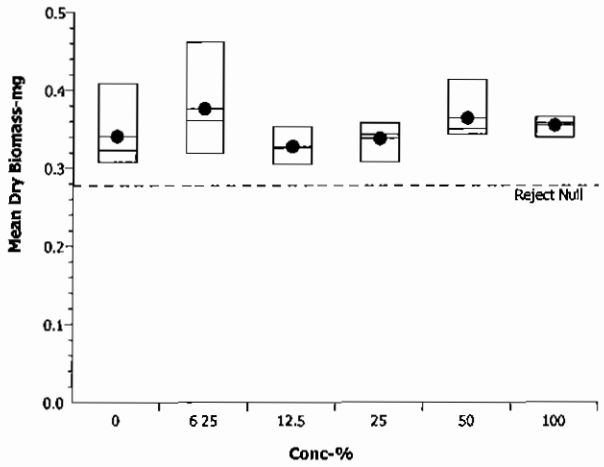
Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

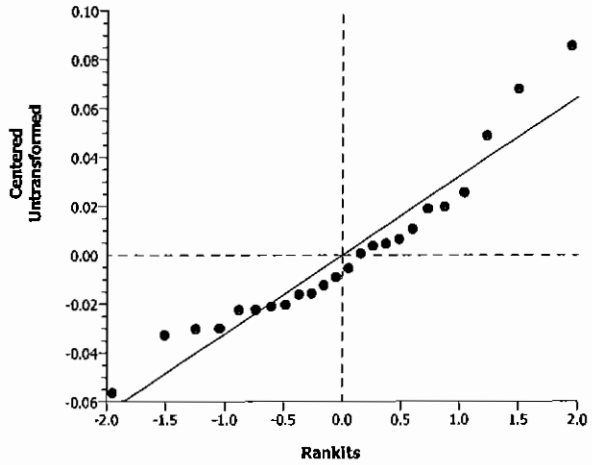
Analysis ID:	02-7836-9207	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 11:09	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
6.25		0.356	0.32	0.3673	0.462
12.5		0.3533	0.3053	0.3467	0.3053
25		0.308	0.358	0.3447	0.342
50		0.3487	0.352	0.3433	0.4133
100		0.36	0.366	0.3393	0.356

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	19-5348-1604	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	10 Jan-11 11:08	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	13-9837-4047	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:15	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-6347-0665	Code:	VCF1010046f	Client:	VCWPD
Sample Date:	06 Oct-10 06:30	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	33h (5.4 °C)	Station:	MO-MEI		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	8.01%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-0.5224	2.407	0.1517	0.9426	Non-Significant Effect
		12.5*	3.174	2.407	0.1517	0.0107	Significant Effect
		25	0.9692	2.407	0.1517	0.4355	Non-Significant Effect
		50	1.492	2.407	0.1517	0.2307	Non-Significant Effect
		100	0.5224	2.407	0.1517	0.6378	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.907	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.1349063	0.02698127	5	3.397	0.0246	Significant Effect
Error	0.1429866	0.007943701	18			
Total	0.2778929	0.03492497	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	2.764	4.248	0.0505	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9526		0.3082	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1426	0.2056	0.2322	Normal Distribution
Distribution	D'Agostino Skewness	0.4811	2.576	0.6304	Normal Distribution
Distribution	D'Agostino Kurtosis	1.278	2.576	0.2011	Normal Distribution
Distribution	D'Agostino Omnibus	1.866	9.21	0.3934	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	19-5348-1604	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 11:08	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	-1.7%
12.5		4	0.8667	0.8374	0.8959	0.8	0.9333	0.01429	0.07698	8.88%	11.86%
25		4	0.95	0.9257	0.9743	0.8667	1	0.01185	0.06383	6.72%	3.39%
50		4	0.9333	0.9126	0.954	0.8667	1	0.01011	0.05443	5.83%	5.09%
100		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	1.7%

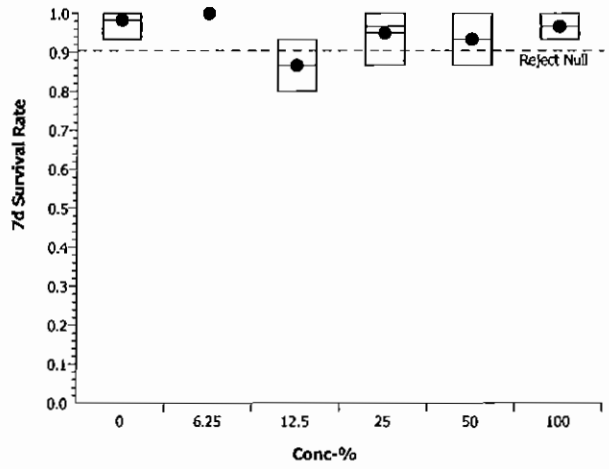
Angular (Corrected) Transformed Summary

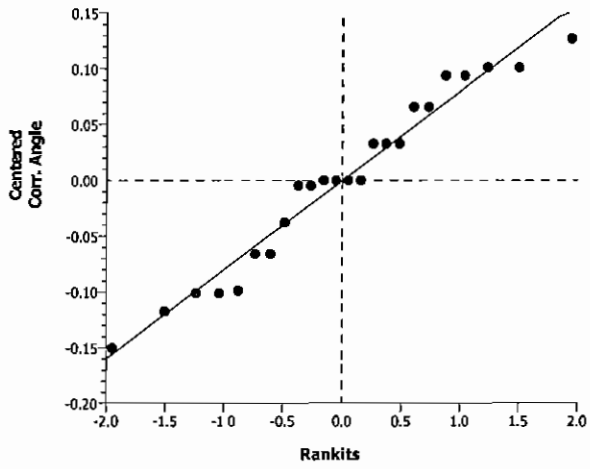
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	0.0%
6.25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-2.34%
12.5		4	1.208	1.164	1.253	1.107	1.31	0.02171	0.1169	9.68%	14.2%
25		4	1.347	1.302	1.392	1.197	1.441	0.02189	0.1179	8.75%	4.34%
50		4	1.314	1.276	1.352	1.197	1.441	0.01855	0.0999	7.6%	6.68%
100		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	2.34%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	1
6.25		1	1	1	1
12.5		0.8	0.9333	0.8	0.9333
25		0.8667	1	0.9333	1
50		0.8667	0.9333	1	0.9333
100		1	0.9333	0.9333	1

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	19-4024-1762	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	10 Jan-11 11:08	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	13-9837-4047	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:15	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-6347-0665	Code:	VCF1010046f	Client:	VCWPD
Sample Date:	06 Oct-10 06:30	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	33h (5.4 °C)	Station:	MO-MEI		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.618	2.802	0.1115	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.308	0.4087	0.008576	0.04697	13.79%	0.0%
6.25		4	0.3763	0.32	0.462	0.01106	0.06057	16.1%	-10.47%
12.5		4	0.3277	0.3053	0.3533	0.004734	0.02593	7.91%	3.82%
25		4	0.3382	0.308	0.358	0.003888	0.02129	6.3%	0.73%
50		4	0.3643	0.3433	0.4133	0.006	0.03286	9.02%	-6.95%
100		4	0.3553	0.3393	0.366	0.002087	0.01143	3.22%	-4.31%

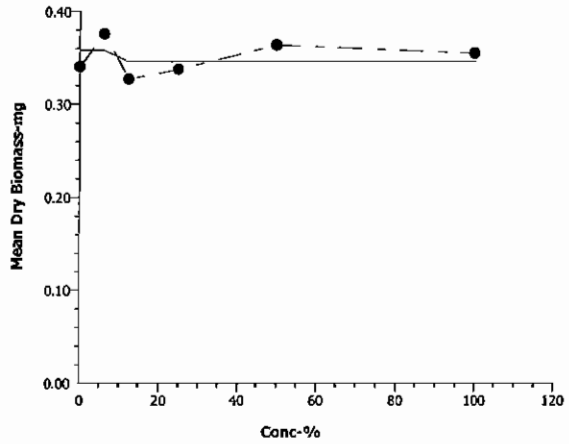
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
6.25		0.356	0.32	0.3673	0.462
12.5		0.3533	0.3053	0.3467	0.3053
25		0.308	0.358	0.3447	0.342
50		0.3487	0.352	0.3433	0.4133
100		0.36	0.366	0.3393	0.356

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-4024-1762	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 11:08	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	19-7454-5061	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	10 Jan-11 11:08	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	13-9837-4047	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 15:15	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 16:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-6347-0665	Code:	VCF1010046f	Client:	VCWPD
Sample Date:	06 Oct-10 06:30	Material:	Sample Water	Project:	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	33h (5.4 °C)	Station:	MO-MEI		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.907	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	11.21	8.73	N/A	8.922	N/A	11.46
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9833	0.9333	1	0.006086	0.03333	3.39%	0.0%	59	60
6.25		4	1	1	1	0	0	0.0%	-1.7%	60	60
12.5		4	0.8667	0.8	0.9333	0.01405	0.07698	8.88%	11.86%	52	60
25		4	0.95	0.8667	1	0.01165	0.06383	6.72%	3.39%	57	60
50		4	0.9333	0.8667	1	0.009938	0.05443	5.83%	5.09%	56	60
100		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	1.7%	58	60

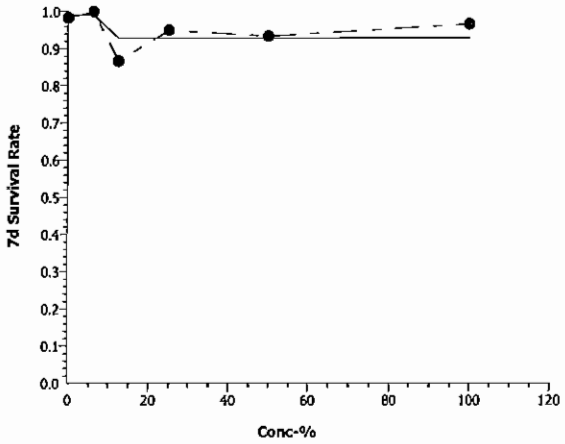
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	1
6.25		1	1	1	1
12.5		0.8	0.9333	0.8	0.9333
25		0.8667	1	0.9333	1
50		0.8667	0.9333	1	0.9333
100		1	0.9333	0.9333	1

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-7454-5061	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 11:08	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	13-9837-4047	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:15	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 16:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-6347-0665	**Code:**	VCF1010046f	**Client:**	VCWPD
Sample Date:	06 Oct-10 06:30	**Material:**	Sample Water	**Project:**	Event 1 2010/11
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	33h (5.4 °C)	**Station:**	MO-MEI		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	38	38	38	38	38	0	0	0.0%	0
Overall		16	49.38			38	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	313.8	311.8	315.7	306	321	0.9667	5.8	1.85%	0
12.5		8	309.4	307.6	311.2	303	319	0.895	5.37	1.74%	0
25		8	295.3	293.4	297.1	288	301	0.929	5.574	1.89%	0
50		8	270.3	266.3	274.2	257	289	1.949	11.7	4.33%	0
100		8	233.4	223	243.8	200	269	5.117	30.7	13.16%	0
Overall		48	293.5			200	361				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.588	7.427	7.748	6.8	8	0.0789	0.4734	6.24%	0
6.25		8	7.263	7.052	7.473	6.4	7.8	0.1039	0.6232	8.58%	0
12.5		8	7.163	6.897	7.428	5.9	7.8	0.1306	0.7837	10.94%	0
25		8	7.125	6.859	7.391	5.8	7.8	0.1309	0.7851	11.02%	0
50		8	7.138	6.871	7.404	5.9	7.8	0.1312	0.7873	11.03%	0
100		8	6.875	6.543	7.207	5.3	7.8	0.1637	0.9823	14.29%	0
Overall		48	7.192			5.3	8				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	68	68	68	68	68	0	0	0.0%	0
Overall		16	76.63			68	90				0 (0%)

Total Ammonia (N)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.938	7.88	7.995	7.7	8.3	0.02808	0.1685	2.12%	0
6.25		8	7.938	7.88	7.995	7.7	8.3	0.02808	0.1685	2.12%	0
12.5		8	7.613	7.544	7.681	7.3	7.9	0.03385	0.2031	2.67%	0
25		8	7.575	7.519	7.631	7.3	7.8	0.02782	0.1669	2.2%	0
50		8	7.538	7.487	7.588	7.3	7.8	0.0251	0.1506	2.0%	0
100		8	7.488	7.4	7.575	7	7.8	0.04313	0.2588	3.46%	0
Overall		48	7.681			7	8.3				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.26	24.17	24.35	24	24.8	0.04449	0.2669	1.1%	0
6.25		8	24.26	24.18	24.34	24	24.7	0.03978	0.2387	0.98%	0
12.5		8	24.35	24.27	24.43	24.1	24.7	0.0378	0.2268	0.93%	0
25		8	24.29	24.22	24.35	24.1	24.6	0.03141	0.1885	0.78%	0
50		8	24.29	24.22	24.35	24.1	24.6	0.03141	0.1885	0.78%	0
100		8	24.24	24.18	24.29	24.1	24.5	0.02663	0.1598	0.66%	0
Overall		48	24.28			24	24.8				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		38	38	38	38	38	38	38	38

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		307	312	317	317	320	321	310	306
12.5		303	305	310	310	315	319	307	306
25		288	288	295	299	299	291	301	301
50		257	260	265	269	268	267	289	287
100		200	201	205	215	256	256	269	265

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	6.8	7.7	7.6
6.25		6.7	7.7	7.8	7.8	7.8	6.5	7.4	6.4
12.5		6.7	7.7	7.8	7.8	7.8	5.9	7.4	6.2
25		6.7	7.7	7.8	7.5	7.8	5.8	7.5	6.2
50		6.7	7.6	7.7	7.8	7.8	5.9	7.5	6.1
100		6	7.3	7.5	7.8	7.8	5.9	7.4	5.3

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		68	68	68	68	68	68	68	68

Total Ammonia (N)-mg/L

Conc-%	Control Type	1
0	Negative Contr	0
100		0

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	7.9	8.3	7.7
6.25		8	7.9	7.9	7.9	7.9	7.9	8.3	7.7
12.5		7.5	7.3	7.5	7.8	7.9	7.8	7.5	7.6
25		7.5	7.3	7.5	7.6	7.8	7.8	7.5	7.6
50		7.5	7.3	7.5	7.5	7.7	7.8	7.5	7.5
100		7	7.3	7.5	7.5	7.7	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.8	24.5	24.1	24.1	24.1	24	24.2	24.3
6.25		24.7	24.5	24.1	24.1	24	24.1	24.3	24.3
12.5		24.6	24.5	24.3	24.1	24.3	24.1	24.2	24.7
25		24.6	24.2	24.5	24.1	24.4	24.1	24.2	24.2
50		24.6	24.2	24.5	24.1	24.4	24.1	24.2	24.2
100		24.4	24.1	24.5	24.1	24.3	24.1	24.3	24.1

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-VEN
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.047

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	13-6193-4484	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	06 Oct-10 15:29	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	13 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	16-1801-9110	**Code:**	VCF1010047c	**Client:**	VCWPD
Sample Date:	06 Oct-10 03:10	**Material:**	Sample Water	**Project:**	Event 1
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	12h (5.4 °C)	**Station:**	MO-VEN		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
18-4325-7835	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
09-0307-0197	Reproduction	100	>100	N/A	33.43%	1	Steel Many-One Rank Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
20-5659-3022	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
19-5168-8295	Reproduction	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
18-4325-7835	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
20-5659-3022	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
09-0307-0197	Reproduction	Control Resp	15.2	15 - NL	Yes	Result Within Limits
19-5168-8295	Reproduction	Control Resp	15.2	15 - NL	Yes	Result Within Limits
09-0307-0197	Reproduction	PMSD	0.3343	0.13 - 0.47	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	15.2	13.22	17.18	10	29	0.9692	5.308	34.92%	0.0%
6.25		10	17.8	15.87	19.73	10	26	0.942	5.16	28.99%	-17.11%
12.5		10	16.7	16.35	17.05	15	18	0.1732	0.9487	5.68%	-9.87%
25		10	21.5	19.56	23.44	15	32	0.9477	5.191	24.14%	-41.45%
50		10	22	20.57	23.43	16	27	0.6992	3.83	17.41%	-44.74%
100		10	25.5	22.85	28.15	13	32	1.297	7.106	27.87%	-67.76%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	10	13	13	13	17	17	12	15	13	29
6.25		16	20	23	21	26	15	21	14	12	10
12.5		16	17	17	16	18	18	17	17	15	16
25		26	20	21	25	23	15	16	20	17	32
50		22	27	16	21	16	25	22	27	22	22
100		21	31	19	32	13	20	32	23	32	32

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	09-0307-0197	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	05 Jan-11 11:30	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	13-6193-4484	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	06 Oct-10 15:29	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	13 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	16-1801-9110	**Code:**	VCF1010047c	**Client:**	VCWPD
Sample Date:	06 Oct-10 03:10	**Material:**	Sample Water	**Project:**	Event 1
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	12h (5.4 °C)	**Station:**	MO-VEN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	33.43%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	121.5	75	3	0.9933	Non-Significant Effect
		12.5	132.5	75	2	0.9997	Non-Significant Effect
		25	140.5	75	2	1.0000	Non-Significant Effect
		50	141	75	0	1.0000	Non-Significant Effect
		100	145	75	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	15.2	15 - NL	Yes	Result Within Limits
PMSD	0.3343	0.13 - 0.47	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.906	3.2	0.1578	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	749.8834	149.9767	5	6.088	0.0002	Significant Effect
Error	1330.3	24.63519	54			
Total	2080.183	174.6118	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	24.23	15.09	0.0002	Unequal Variances
Variances	Mod Levene Equality of Variance	3.769	3.377	0.0053	Unequal Variances
Distribution	Shapiro-Wilk Normality	0.9837		0.6010	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1081	0.1331	0.0781	Normal Distribution
Distribution	D'Agostino Skewness	0.9858	2.576	0.3242	Normal Distribution
Distribution	D'Agostino Kurtosis	1.143	2.576	0.2532	Normal Distribution
Distribution	D'Agostino Omnibus	2.278	9.21	0.3202	Normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	15.2	13.18	17.22	10	29	0.9857	5.308	34.92%	0.0%
6.25		10	17.8	15.84	19.76	10	26	0.9581	5.16	28.99%	-17.11%
12.5		10	16.7	16.34	17.06	15	18	0.1762	0.9487	5.68%	-9.87%
25		10	21.5	19.53	23.47	15	32	0.9639	5.191	24.14%	-41.45%
50		10	22	20.54	23.46	16	27	0.7112	3.83	17.41%	-44.74%
100		10	25.5	22.8	28.2	13	32	1.32	7.106	27.87%	-67.76%

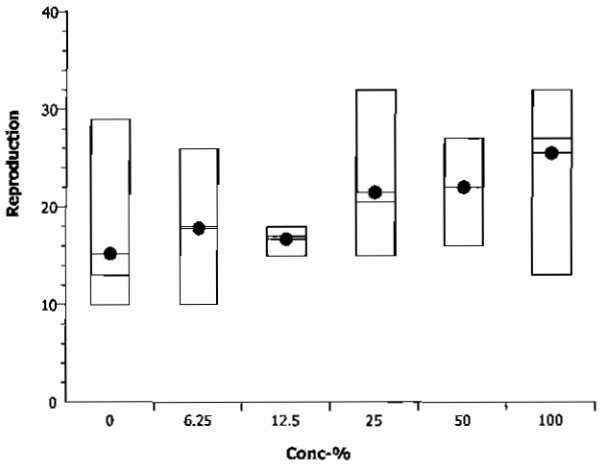
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

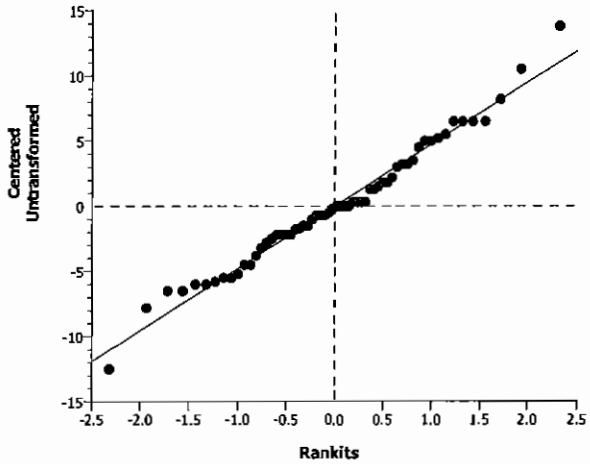
Analysis ID:	09-0307-0197	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	05 Jan-11 11:30	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	10	13	13	13	17	17	12	15	13	29
6.25		16	20	23	21	26	15	21	14	12	10
12.5		16	17	17	16	18	18	17	17	15	16
25		26	20	21	25	23	15	16	20	17	32
50		22	27	16	21	16	25	22	27	22	22
100		21	31	19	32	13	20	32	23	32	32

Graphics





CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-5168-8295	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	05 Jan-11 11:30	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	13-6193-4484	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	06 Oct-10 15:29	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	13 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	16-1801-9110	**Code:**	VCF1010047c	**Client:**	VCWPD
Sample Date:	06 Oct-10 03:10	**Material:**	Sample Water	**Project:**	Event 1
Receive Date:	06 Oct-10 08:30	**Source:**	Bioassay Report		
Sample Age:	12h (5.4 °C)	**Station:**	MO-VEN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	15.2	15 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.906	3.2	0.1578	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	15.2	10	29	0.9692	5.308	34.92%	0.0%
6.25		10	17.8	10	26	0.942	5.16	28.99%	-17.11%
12.5		10	16.7	15	18	0.1732	0.9487	5.68%	-9.87%
25		10	21.5	15	32	0.9477	5.191	24.14%	-41.45%
50		10	22	16	27	0.6992	3.83	17.41%	-44.74%
100		10	25.5	13	32	1.297	7.106	27.87%	-67.76%

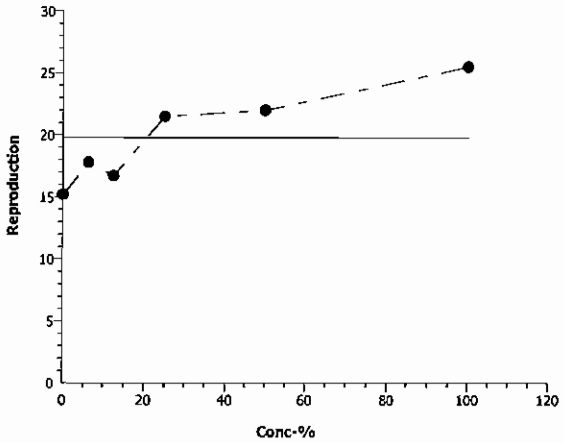
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	10	13	13	13	17	17	12	15	13	29
6.25		16	20	23	21	26	15	21	14	12	10
12.5		16	17	17	16	18	18	17	17	15	16
25		26	20	21	25	23	15	16	20	17	32
50		22	27	16	21	16	25	22	27	22	22
100		21	31	19	32	13	20	32	23	32	32

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-5168-8295	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	05 Jan-11 11:30	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	20-5659-3022	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	05 Jan-11 11:30	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	13-6193-4484	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	06 Oct-10 15:29	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	13 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	16-1801-9110	Code:	VCF1010047c	Client:	VCWPD
Sample Date:	06 Oct-10 03:10	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	12h (5.4 °C)	Station:	MO-VEN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

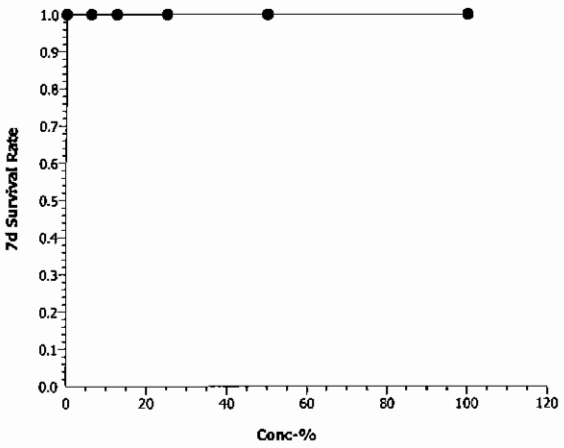
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	20-5659-3022	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	05 Jan-11 11:30	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-4325-7835	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	05 Jan-11 11:30	Analysis:	STP 2x2 Contingency Tables	Official Results:	Yes
Batch ID:	13-6193-4484	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	06 Oct-10 15:29	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	13 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	16-1801-9110	Code:	VCF1010047c	Client:	VCWPD
Sample Date:	06 Oct-10 03:10	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	12h (5.4 °C)	Station:	MO-VEN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

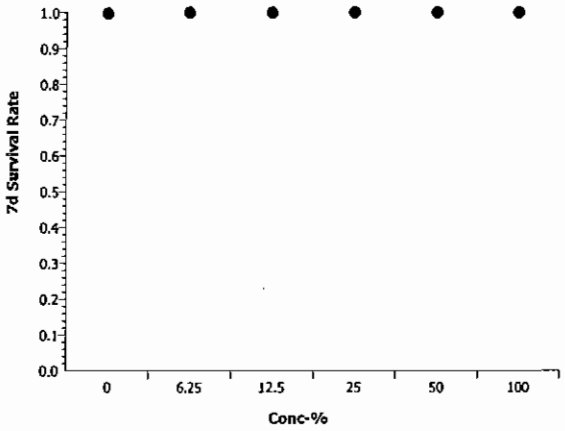
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-4325-7835	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	05 Jan-11 11:30	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	13-6193-4484	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	06 Oct-10 15:29	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	13 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	16-1801-9110	Code:	VCF1010047c	Client:	VCWPD
Sample Date:	06 Oct-10 03:10	Material:	Sample Water	Project:	Event 1
Receive Date:	06 Oct-10 08:30	Source:	Bioassay Report		
Sample Age:	12h (5.4 °C)	Station:	MO-VEN		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60	60	60	60	60	0	0	0.0%	0
100		8	25	25	25	25	25	0	0	0.0%	0
Overall		16	42.5			25	60				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	333.3	331.7	334.8	326	338	0.7805	4.683	1.41%	0
6.25		8	332.8	323.9	341.6	315	396	4.362	26.17	7.87%	0
12.5		8	320.9	315.2	326.5	306	360	2.784	16.7	5.21%	0
25		8	304.5	301.4	307.6	295	319	1.53	9.181	3.02%	0
50		8	286.4	282.6	290.2	276	306	1.862	11.17	3.9%	0
100		8	245.5	243.4	247.6	238	255	1.02	6.118	2.49%	0
Overall		48	303.9			238	396				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.763	7.575	7.95	6.9	8.6	0.09256	0.5553	7.15%	0
6.25		8	7.225	6.995	7.455	6.2	7.8	0.1133	0.6798	9.41%	0
12.5		8	7.2	6.984	7.416	6.2	7.8	0.1065	0.6392	8.88%	0
25		8	7.063	6.751	7.374	5.1	7.8	0.1535	0.9211	13.04%	0
50		8	6.963	6.579	7.346	4.4	7.7	0.189	1.134	16.28%	0
100		8	6.675	6.159	7.191	4	7.7	0.2543	1.526	22.86%	0
Overall		48	7.148			4	8.6				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.63	84.4	86.85	83	90	0.6038	3.623	4.23%	0
100		8	76	76	76	76	76	0	0	0.0%	0
Overall		16	80.81			76	90				0 (0%)

Total Ammonia (N)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.988	7.949	8.026	7.9	8.2	0.01877	0.1126	1.41%	0
6.25		8	7.925	7.872	7.978	7.8	8.3	0.02635	0.1581	2.0%	0
12.5		8	7.938	7.872	8.003	7.8	8.4	0.03204	0.1923	2.42%	0
25		8	7.9	7.83	7.97	7.8	8.4	0.0345	0.207	2.62%	0
50		8	7.875	7.799	7.951	7.7	8.4	0.03753	0.2252	2.86%	0
100		8	7.863	7.769	7.956	7.6	8.5	0.04624	0.2774	3.53%	0
Overall		48	7.915			7.6	8.5				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.16	24.13	24.2	24	24.3	0.01767	0.106	0.44%	0
6.25		8	52.86	25.35	80.37	24	254.1	13.55	81.31	153.8%	0
12.5		8	24.14	24.09	24.18	24	24.3	0.02171	0.1302	0.54%	0
25		8	24.16	24.12	24.21	24	24.3	0.02171	0.1303	0.54%	0
50		8	24.21	24.18	24.25	24	24.3	0.01652	0.0991	0.41%	0
100		8	24.23	24.17	24.28	24	24.5	0.0248	0.1488	0.61%	0
Overall		48	28.96			24	254.1				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	60	60	60	60	60	60
100		25	25	25	25	25	25	25	25

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	328	326	330	335	338	338	337	334
6.25		396	315	323	325	328	329	330	316
12.5		360	306	309	315	320	320	321	316
25		304	295	297	299	300	319	318	304
50		282	276	277	278	289	300	306	283
100		243	238	240	245	246	255	254	243

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.9	6.9	8	7.9	7.9	7.9	7	8.6
6.25		7.8	6.4	7.2	7.8	7.8	7.8	6.8	6.2
12.5		7.8	6.5	7.3	7.7	7.7	7.7	6.7	6.2
25		7.8	6.5	7.3	7.6	7.7	7.7	6.8	5.1
50		7.7	6.4	7.4	7.5	7.7	7.7	6.9	4.4
100		7.7	4.5	7.4	7.5	7.7	7.7	6.9	4

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	90	83	83	83	83	83
100		76	76	76	76	76	76	76	76

Total Ammonia (N)-mg/L

Conc-%	Control Type	1
0	Negative Contr	0
100		0

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.2	8	7.9	7.9	7.9	7.9	8	8.1
6.25		8.3	7.8	7.8	7.9	7.9	7.9	7.9	7.9
12.5		8.4	7.8	7.8	7.9	7.9	7.9	7.9	7.9
25		8.4	7.8	7.8	7.8	7.9	7.9	7.8	7.8
50		8.4	7.8	7.7	7.8	7.8	7.9	7.9	7.7
100		8.5	7.6	7.7	7.8	7.8	7.9	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.3	24.3	24.1	24.1	24.2	24.1	24.2
6.25		24	24.3	24.3	254.1	24	24.2	24	24
12.5		24	24.3	24.3	24.1	24	24.2	24.2	24
25		24	24.3	24.3	24.1	24	24.3	24.2	24.1
50		24	24.3	24.3	24.2	24.2	24.3	24.2	24.2
100		24	24.3	24.3	24.2	24.2	24.5	24.2	24.1

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-THO
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.050

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	07-4663-5688	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:51	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	10-1512-4689	Code:	VCF1010050af	Client:	VCWPD
Sample Date:	06 Oct-10 03:16	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	36h (4.5 °C)	Station:	MO-THO		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
14-7620-9342	7d Survival Rate	100	>100	N/A	8.17%	1	Dunnett's Multiple Comparison Test
17-8483-3854	Mean Dry Biomass-mg	100	>100	N/A	15.48%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
00-0427-4249	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
05-2004-7194	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
00-0427-4249	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
14-7620-9342	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
05-2004-7194	Mean Dry Biomass-mg	Control Resp	0.3305	0.25 - NL	Yes	Result Within Limits
17-8483-3854	Mean Dry Biomass-mg	Control Resp	0.3305	0.25 - NL	Yes	Result Within Limits
17-8483-3854	Mean Dry Biomass-mg	PMSD	0.1548	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	0.0%
6.25		4	0.9	0.8751	0.9249	0.8	0.9333	0.01217	0.06667	7.41%	6.9%
12.5		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	0.0%
25		4	0.95	0.9262	0.9738	0.8667	1	0.01165	0.06383	6.72%	1.72%
50		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-1.72%
100		4	0.95	0.9376	0.9624	0.9333	1	0.006086	0.03333	3.51%	1.72%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3305	0.3177	0.3433	0.2867	0.3653	0.006248	0.03422	10.35%	0.0%
6.25		4	0.2988	0.2901	0.3076	0.2787	0.3327	0.004276	0.02342	7.84%	9.58%
12.5		4	0.3268	0.3172	0.3365	0.2887	0.346	0.00472	0.02585	7.91%	1.11%
25		4	0.353	0.3439	0.3621	0.3247	0.384	0.004465	0.02446	6.93%	-6.81%
50		4	0.3743	0.3605	0.3882	0.326	0.416	0.00676	0.03702	9.89%	-13.26%
100		4	0.4312	0.419	0.4434	0.39	0.4693	0.005962	0.03266	7.57%	-30.46%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	0.9333	1
6.25		0.8	0.9333	0.9333	0.9333
12.5		0.9333	0.9333	1	1
25		0.8667	0.9333	1	1
50		1	1	1	0.9333
100		0.9333	1	0.9333	0.9333

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.322	0.2867	0.348	0.3653
6.25		0.2787	0.3327	0.2927	0.2913
12.5		0.336	0.2887	0.3367	0.346
25		0.3247	0.3553	0.348	0.384
50		0.416	0.3747	0.326	0.3807
100		0.39	0.4373	0.428	0.4693

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	17-8483-3854	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 12:02	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	07-4663-5688	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:51	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	10-1512-4689	Code:	VCF1010050af	Client:	VCWPD
Sample Date:	06 Oct-10 03:16	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	36h (4.5 °C)	Station:	MO-THO		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	15.48%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	1.49	2.407	0.05117	0.2313	Non-Significant Effect
		12.5	0.1725	2.407	0.05117	0.7775	Non-Significant Effect
		25	-1.058	2.407	0.05117	0.9853	Non-Significant Effect
		50	-2.062	2.407	0.05117	0.9993	Non-Significant Effect
		100	-4.735	2.407	0.05117	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3305	0.25 - NL	Yes	Result Within Limits
PMSD	0.1548	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.817	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.04275303	0.008550607	5	9.46	0.0001	Significant Effect
Error	0.01626978	0.0009038765	18			
Total	0.05902281	0.009454483	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	0.992	15.09	0.9632	Equal Variances
Variances	Mod Levene Equality of Variance	0.2726	4.248	0.9222	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9525		0.3062	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1246	0.2056	0.4325	Normal Distribution
Distribution	D'Agostino Skewness	0.5725	2.576	0.5670	Normal Distribution
Distribution	D'Agostino Kurtosis	0.8408	2.576	0.4005	Normal Distribution
Distribution	D'Agostino Omnibus	1.035	9.21	0.5961	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3305	0.3175	0.3435	0.2867	0.3653	0.006355	0.03422	10.35%	0.0%
6.25		4	0.2988	0.2899	0.3077	0.2787	0.3327	0.004349	0.02342	7.84%	9.58%
12.5		4	0.3268	0.317	0.3367	0.2887	0.346	0.0048	0.02585	7.91%	1.11%
25		4	0.353	0.3437	0.3623	0.3247	0.384	0.004541	0.02446	6.93%	-6.81%
50		4	0.3743	0.3602	0.3884	0.326	0.416	0.006875	0.03702	9.89%	-13.26%
100		4	0.4312	0.4187	0.4436	0.39	0.4693	0.006064	0.03266	7.57%	-30.46%

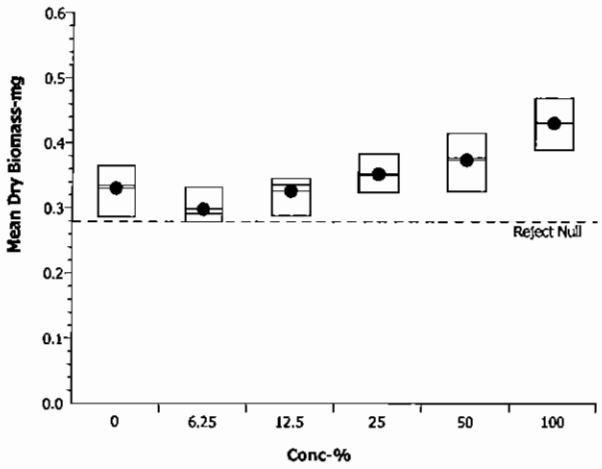
Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

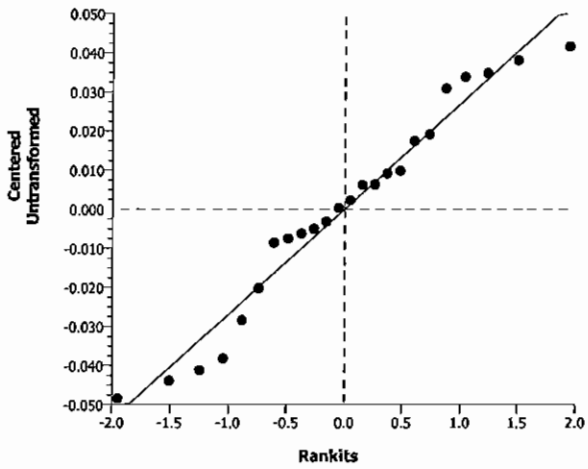
Analysis ID:	17-8483-3854	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 12:02	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.322	0.2867	0.348	0.3653
6.25		0.2787	0.3327	0.2927	0.2913
12.5		0.336	0.2887	0.3367	0.346
25		0.3247	0.3553	0.348	0.384
50		0.416	0.3747	0.326	0.3807
100		0.39	0.4373	0.428	0.4693

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	14-7620-9342	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 12:01	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	07-4663-5688	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:51	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	10-1512-4689	Code:	VCF1010050af	Client:	VCWPD
Sample Date:	06 Oct-10 03:16	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	36h (4.5 °C)	Station:	MO-THO		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	8.17%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	1.915	2.407	0.1464	0.1203	Non-Significant Effect
		12.5	0	2.407	0.1464	0.8333	Non-Significant Effect
		25	0.463	2.407	0.1464	0.6635	Non-Significant Effect
		50	-0.5414	2.407	0.1464	0.9451	Non-Significant Effect
		100	0.5414	2.407	0.1464	0.6294	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.996	2.802	0.9205	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.05216036	0.01043207	5	1.41	0.2677	Non-Significant Effect
Error	0.1331483	0.007397127	18			
Total	0.1853087	0.0178292	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.605	15.09	0.9007	Equal Variances
Variances	Mod Levene Equality of Variance	0.5922	4.248	0.7061	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9091		0.0338	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.2091	0.2056	0.0081	Non-normal Distribution
Distribution	D'Agostino Skewness	1.157	2.576	0.2472	Normal Distribution
Distribution	D'Agostino Kurtosis	0.9806	2.576	0.3268	Normal Distribution
Distribution	D'Agostino Omnibus	2.301	9.21	0.3165	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-7620-9342	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 12:01	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	0.0%
6.25		4	0.9	0.8746	0.9254	0.8	0.9333	0.01238	0.06667	7.41%	6.9%
12.5		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	0.0%
25		4	0.95	0.9257	0.9743	0.8667	1	0.01185	0.06383	6.72%	1.72%
50		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-1.72%
100		4	0.95	0.9373	0.9627	0.9333	1	0.00619	0.03333	3.51%	1.72%

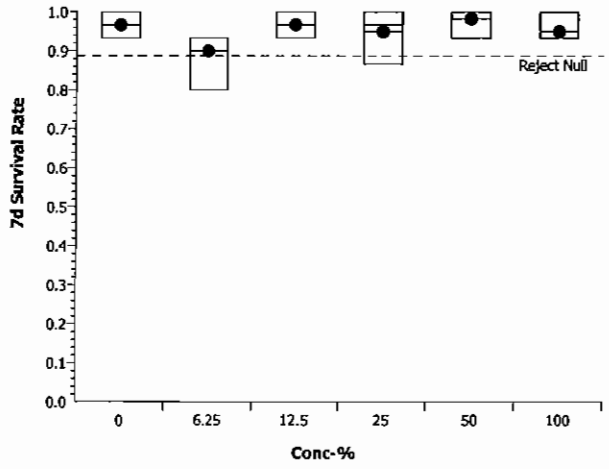
Angular (Corrected) Transformed Summary

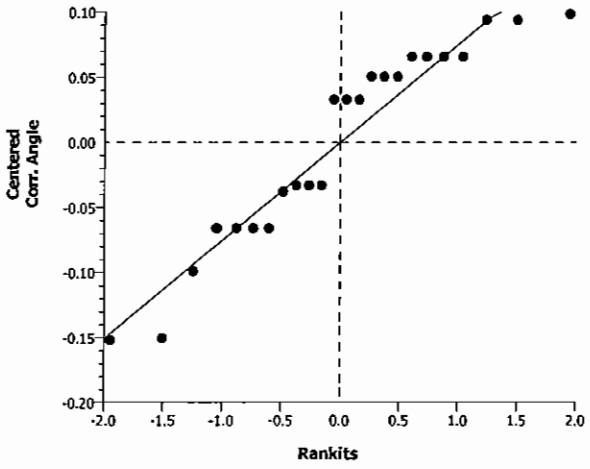
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	0.0%
6.25		4	1.259	1.221	1.298	1.107	1.31	0.0188	0.1012	8.04%	8.47%
12.5		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	0.0%
25		4	1.347	1.302	1.392	1.197	1.441	0.02189	0.1179	8.75%	2.05%
50		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-2.39%
100		4	1.343	1.318	1.368	1.31	1.441	0.01223	0.06585	4.91%	2.39%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	0.9333	1
6.25		0.8	0.9333	0.9333	0.9333
12.5		0.9333	0.9333	1	1
25		0.8667	0.9333	1	1
50		1	1	1	0.9333
100		0.9333	1	0.9333	0.9333

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-2004-7194	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 12:02	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	07-4663-5688	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:51	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	10-1512-4689	Code:	VCF1010050af	Client:	VCWPD
Sample Date:	06 Oct-10 03:16	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	36h (4.5 °C)	Station:	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3305	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.817	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3305	0.2867	0.3653	0.006248	0.03422	10.35%	0.0%
6.25		4	0.2988	0.2787	0.3327	0.004276	0.02342	7.84%	9.58%
12.5		4	0.3268	0.2887	0.346	0.00472	0.02585	7.91%	1.11%
25		4	0.353	0.3247	0.384	0.004465	0.02446	6.93%	-6.81%
50		4	0.3743	0.326	0.416	0.00676	0.03702	9.89%	-13.26%
100		4	0.4312	0.39	0.4693	0.005962	0.03266	7.57%	-30.46%

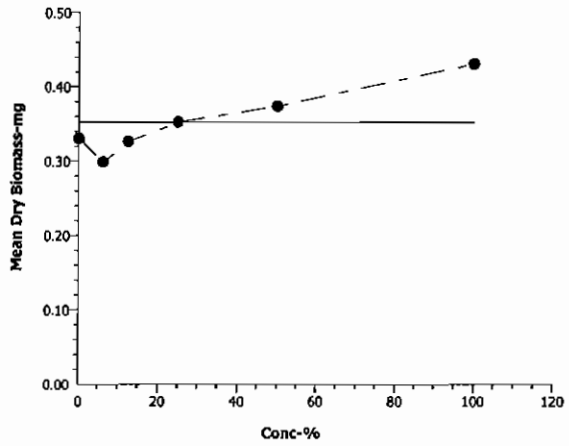
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.322	0.2867	0.348	0.3653
6.25		0.2787	0.3327	0.2927	0.2913
12.5		0.336	0.2887	0.3367	0.346
25		0.3247	0.3553	0.348	0.384
50		0.416	0.3747	0.326	0.3807
100		0.39	0.4373	0.428	0.4693

Fathead Minnow 7-d Larval Survival and Growth Test | **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	05-2004-7194	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 12:02	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-0427-4249	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 12:01	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	07-4663-5688	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:51	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	10-1512-4689	**Code:**	VCF1010050af	**Client:**	VCWPD
Sample Date:	06 Oct-10 03:16	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	36h (4.5 °C)	**Station:**	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.996	2.802	0.9205	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9667	0.9333	1	0.007027	0.03849	3.98%	0.0%	58	60
6.25		4	0.9	0.8	0.9333	0.01217	0.06667	7.41%	6.9%	54	60
12.5		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	0.0%	58	60
25		4	0.95	0.8667	1	0.01165	0.06383	6.72%	1.72%	57	60
50		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-1.72%	59	60
100		4	0.95	0.9333	1	0.006086	0.03333	3.51%	1.72%	57	60

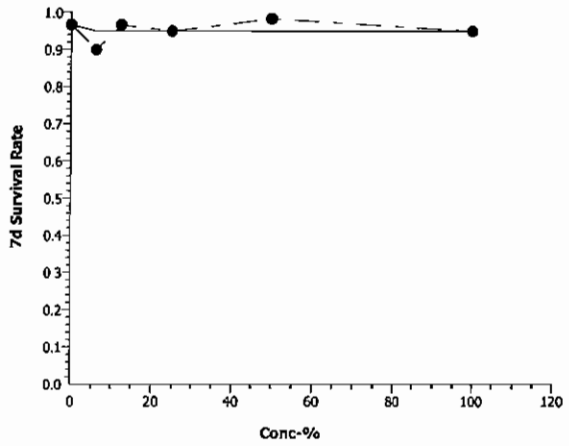
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	0.9333	1
6.25		0.8	0.9333	0.9333	0.9333
12.5		0.9333	0.9333	1	1
25		0.8667	0.9333	1	1
50		1	1	1	0.9333
100		0.9333	1	0.9333	0.9333

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-0427-4249	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 12:01	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	07-4663-5688	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:51	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	10-1512-4689	Code:	VCF1010050af	Client:	VCWPD
Sample Date:	06 Oct-10 03:16	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	36h (4.5 °C)	Station:	MO-THO		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	250	250	250	250	250	0	0	0.0%	0
Overall		16	155.4			60	250				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	404.3	401.7	406.8	397	417	1.269	7.611	1.88%	0
12.5		8	493.3	490.2	496.3	474	503	1.498	8.988	1.82%	0
25		8	649.6	644.2	655	626	671	2.668	16.01	2.46%	0
50		8	1002	996.5	1007	968	1019	2.657	15.94	1.59%	0
100		8	1722	1712	1731	1678	1759	4.566	27.4	1.59%	0
Overall		48	768.2			326	1759				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.025	6.821	7.229	6.1	7.8	0.1003	0.6018	8.57%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.198			5.9	8.3				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	250	250	250	250	250	0	0	0.0%	0
Overall		16	167.6			83	250				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		250	250	250	250	250	250	250	250

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		414	398	399	397	399	417	405	405
12.5		503	496	495	495	499	497	487	474
25		670	626	635	648	650	671	657	640
50		968	1002	1000	1010	1010	1019	1013	993
100		1694	1712	1720	1745	1745	1759	1720	1678

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.7	6.8	7	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		250	250	250	250	250	250	250	250

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-THO
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.050

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	20-4371-1863	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:51	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	16-3934-7125	Code:	VCF1010050ac	Client:	VCWPD
Sample Date:	06 Oct-10 03:16	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	36h (4.5 °C)	Station:	MO-THO		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
03-1690-3194	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
07-9401-6918	Reproduction	100	>100	N/A	12.66%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
10-5843-3513	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
07-2967-9173	Reproduction	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
03-1690-3194	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
10-5843-3513	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
07-2967-9173	Reproduction	Control Resp	19.6	15 - NL	Yes	Result Within Limits
07-9401-6918	Reproduction	Control Resp	19.6	15 - NL	Yes	Result Within Limits
07-9401-6918	Reproduction	PMSD	0.1266	0.13 - 0.47	Yes	Result Below Limit

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	19.6	18.91	20.29	16	22	0.3355	1.838	9.38%	0.0%
6.25		10	19.7	18.64	20.76	14	23	0.5168	2.83	14.37%	-0.51%
12.5		10	20.4	19.36	21.44	16	25	0.5106	2.797	13.71%	-4.08%
25		10	18.7	17.87	19.53	16	22	0.4041	2.214	11.84%	4.59%
50		10	20.4	19.27	21.53	16	26	0.5524	3.026	14.83%	-4.08%
100		10	20	19.47	20.53	18	22	0.2582	1.414	7.07%	-2.04%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	20	18	19	21	20	22	16	22	19	19
6.25		21	20	16	14	21	21	18	22	23	21
12.5		21	21	20	24	18	25	22	16	19	18
25		20	21	19	18	17	21	22	16	17	16
50		21	19	22	20	22	23	18	16	26	17
100		20	20	21	22	22	19	20	18	20	18

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	07-9401-6918	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:39	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	20-4371-1863	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:51	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	16-3934-7125	**Code:**	VCF1010050ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 03:16	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	36h (4.5 °C)	**Station:**	MO-THO		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	12.66%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-0.09223	2.289	2.482	0.8593	Non-Significant Effect
		12.5	-0.7379	2.289	2.482	0.9674	Non-Significant Effect
		25	0.8301	2.289	2.482	0.4948	Non-Significant Effect
		50	-0.7379	2.289	2.482	0.9674	Non-Significant Effect
		100	-0.3689	2.289	2.482	0.9202	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	19.6	15 - NL	Yes	Result Within Limits
PMSD	0.1266	0.13 - 0.47	Yes	Result Below Limit

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.458	3.2	0.7157	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	20.2	4.04	5	0.6873	0.6351	Non-Significant Effect
Error	317.4	5.877778	54			
Total	337.6	9.917778	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	6.689	15.09	0.2448	Equal Variances
Variances	Mod Levene Equality of Variance	1.138	3.377	0.3518	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9918		0.9598	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.07909	0.1331	0.4296	Normal Distribution
Distribution	D'Agostino Skewness	0.467	2.576	0.6405	Normal Distribution
Distribution	D'Agostino Kurtosis	0.02257	2.576	0.9820	Normal Distribution
Distribution	D'Agostino Omnibus	0.2186	9.21	0.8965	Normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	19.6	18.9	20.3	16	22	0.3413	1.838	9.38%	0.0%
6.25		10	19.7	18.62	20.78	14	23	0.5256	2.83	14.37%	-0.51%
12.5		10	20.4	19.34	21.46	16	25	0.5194	2.797	13.71%	-4.08%
25		10	18.7	17.86	19.54	16	22	0.4111	2.214	11.84%	4.59%
50		10	20.4	19.25	21.55	16	26	0.5619	3.026	14.83%	-4.08%
100		10	20	19.46	20.54	18	22	0.2626	1.414	7.07%	-2.04%

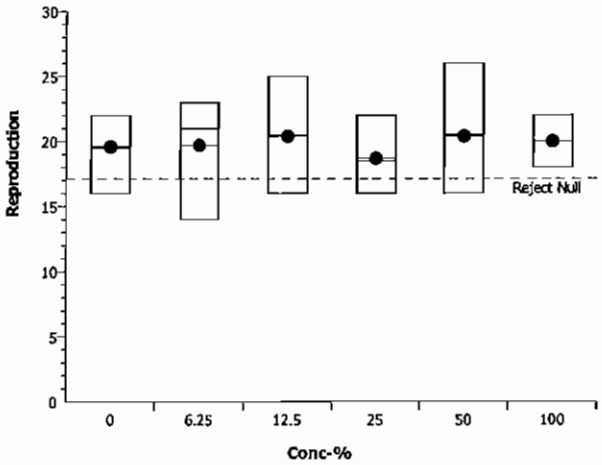
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

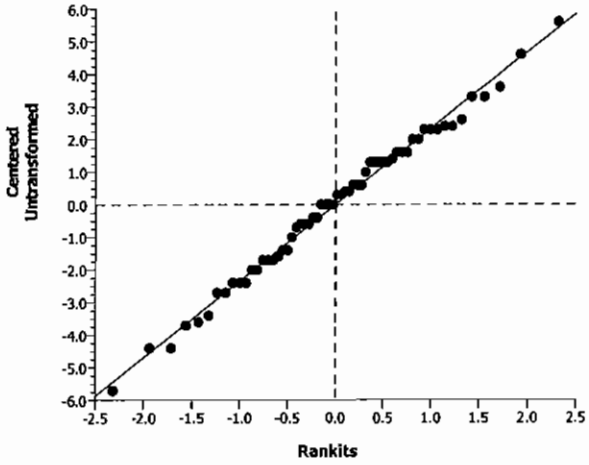
Analysis ID:	07-9401-6918	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:39	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	20	18	19	21	20	22	16	22	19	19
6.25		21	20	16	14	21	21	18	22	23	21
12.5		21	21	20	24	18	25	22	16	19	18
25		20	21	19	18	17	21	22	16	17	16
50		21	19	22	20	22	23	18	16	26	17
100		20	20	21	22	22	19	20	18	20	18

Graphics





CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	07-2967-9173	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:39	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	20-4371-1863	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:51	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	16-3934-7125	**Code:**	VCF1010050ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 03:16	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	36h (4.5 °C)	**Station:**	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7090379	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	19.6	15 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.458	3.2	0.7157	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	19.6	16	22	0.3355	1.838	9.38%	0.0%
6.25		10	19.7	14	23	0.5168	2.83	14.37%	-0.51%
12.5		10	20.4	16	25	0.5106	2.797	13.71%	-4.08%
25		10	18.7	16	22	0.4041	2.214	11.84%	4.59%
50		10	20.4	16	26	0.5524	3.026	14.83%	-4.08%
100		10	20	18	22	0.2582	1.414	7.07%	-2.04%

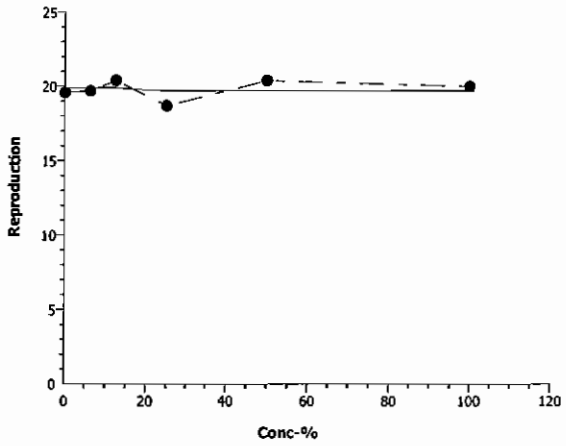
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	20	18	19	21	20	22	16	22	19	19
6.25		21	20	16	14	21	21	18	22	23	21
12.5		21	21	20	24	18	25	22	16	19	18
25		20	21	19	18	17	21	22	16	17	16
50		21	19	22	20	22	23	18	16	26	17
100		20	20	21	22	22	19	20	18	20	18

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	07-2967-9173	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:39	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	10-5843-3513	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:39	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	20-4371-1863	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:51	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	16-3934-7125	Code:	VCF1010050ac	Client:	VCWPD
Sample Date:	06 Oct-10 03:16	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	36h (4.5 °C)	Station:	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7090379	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

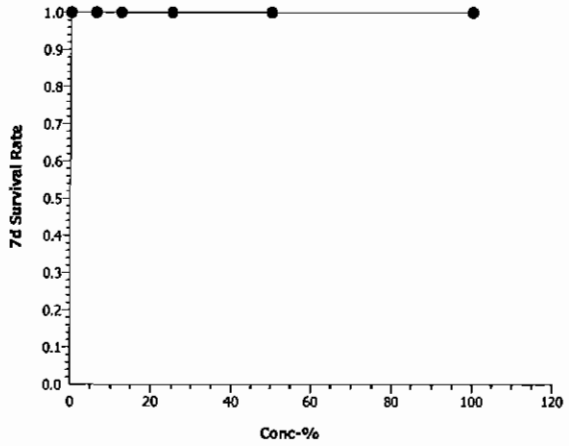
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	10-5843-3513	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:39	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	03-1690-3194	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:39	Analysis:	STP 2x2 Contingency Tables	Official Results:	Yes
Batch ID:	20-4371-1863	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:51	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	16-3934-7125	Code:	VCF1010050ac	Client:	VCWPD
Sample Date:	06 Oct-10 03:16	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	36h (4.5 °C)	Station:	MO-THO		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

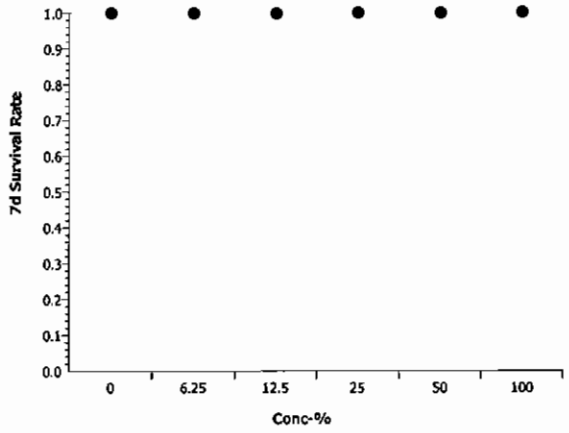
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	03-1690-3194	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:39	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	20-4371-1863	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:51	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	16-3934-7125	**Code:**	VCF1010050ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 03:16	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	36h (4.5 °C)	**Station:**	MO-THO		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	250	250	250	250	250	0	0	0.0%	0
Overall		16	155.4			60	250				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	404.3	401.7	406.8	397	417	1.269	7.611	1.88%	0
12.5		8	493.3	490.2	496.3	474	503	1.498	8.988	1.82%	0
25		8	649.6	644.2	655	626	671	2.668	16.01	2.46%	0
50		8	1002	996.5	1007	968	1019	2.657	15.94	1.59%	0
100		8	1722	1712	1731	1678	1759	4.566	27.4	1.59%	0
Overall		48	768.2			326	1759				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.025	6.821	7.229	6.1	7.8	0.1003	0.6018	8.57%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.198			5.9	8.3				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	250	250	250	250	250	0	0	0.0%	0
Overall		16	167.6			83	250				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		250	250	250	250	250	250	250	250

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		414	398	399	397	399	417	405	405
12.5		503	496	495	495	499	497	487	474
25		670	626	635	648	650	671	657	640
50		968	1002	1000	1010	1010	1019	1013	993
100		1694	1712	1720	1745	1745	1759	1720	1678

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.7	6.8	7	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		250	250	250	250	250	250	250	250

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-THO
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.050

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	16-5254-4732	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:53	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	16-3039-1395	Code:	VCF1010050s	Client:	VCWPD
Sample Date:	06 Oct-10 03:16	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	34h (4.5 °C)	Station:	MO-THO		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
16-0914-4302	Cell Density	100	>100	N/A	15.15%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
09-3033-3674	Cell Density	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
09-3033-3674	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
16-0914-4302	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
09-3033-3674	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
16-0914-4302	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
16-0914-4302	Cell Density	PMSD	0.1515	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.117E+6	1.175E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.840E+6	1.804E+6	1.877E+6	1.698E+6	1.915E+6	1.776E+4	9.728E+4	5.29%	-60.62%
12.5		4	1.827E+6	1.796E+6	1.857E+6	1.718E+6	1.912E+6	1.502E+4	8.229E+4	4.51%	-59.42%
25		4	1.954E+6	1.924E+6	1.983E+6	1.842E+6	2.015E+6	1.452E+4	7.953E+4	4.07%	-70.5%
50		4	1.879E+6	1.830E+6	1.927E+6	1.776E+6	2.046E+6	2.349E+4	1.287E+5	6.85%	-63.95%
100		4	1.770E+6	1.721E+6	1.819E+6	1.594E+6	1.872E+6	2.395E+4	1.312E+5	7.41%	-54.46%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.698E+6	1.862E+6	1.886E+6	1.915E+6
12.5		1.816E+6	1.912E+6	1.718E+6	1.860E+6
25		2.015E+6	1.951E+6	1.842E+6	2.006E+6
50		1.913E+6	2.046E+6	1.776E+6	1.779E+6
100		1.868E+6	1.745E+6	1.594E+6	1.872E+6

CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	16-0914-4302	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 12:14	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	16-5254-4732	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:53	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	16-3039-1395	Code:	VCF1010050s	Client:	VCWPD
Sample Date:	06 Oct-10 03:16	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	34h (4.5 °C)	Station:	MO-THO		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	15.15%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-9.633	2.407	173500	1.0000	Non-Significant Effect
		12.5	-9.442	2.407	173500	1.0000	Non-Significant Effect
		25	-11.2	2.407	173500	1.0000	Non-Significant Effect
		50	-10.16	2.407	173500	1.0000	Non-Significant Effect
		100	-8.655	2.407	173500	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1515	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.948	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	1.744818E+12	3.489635E+11	5	33.57	<0.0001	Significant Effect
Error	1.871292E+11	10396070000	18			
Total	1.931947E+12	3.593596E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.567	15.09	0.9052	Equal Variances
Variances	Mod Levene Equality of Variance	0.5361	4.248	0.7464	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9432		0.1926	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1567	0.2056	0.1308	Normal Distribution
Distribution	D'Agostino Skewness	0.7988	2.576	0.4244	Normal Distribution
Distribution	D'Agostino Kurtosis	0.9049	2.576	0.3655	Normal Distribution
Distribution	D'Agostino Omnibus	1.457	9.21	0.4826	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.116E+6	1.175E+6	1.037E+6	1.222E+6	1.446E+4	7.786E+4	6.8%	0.0%
6.25		4	1.840E+6	1.803E+6	1.877E+6	1.698E+6	1.915E+6	1.806E+4	9.728E+4	5.29%	-60.62%
12.5		4	1.827E+6	1.795E+6	1.858E+6	1.718E+6	1.912E+6	1.528E+4	8.229E+4	4.51%	-59.42%
25		4	1.954E+6	1.923E+6	1.984E+6	1.842E+6	2.015E+6	1.477E+4	7.953E+4	4.07%	-70.5%
50		4	1.879E+6	1.830E+6	1.927E+6	1.776E+6	2.046E+6	2.389E+4	1.287E+5	6.85%	-63.95%
100		4	1.770E+6	1.720E+6	1.820E+6	1.594E+6	1.872E+6	2.436E+4	1.312E+5	7.41%	-54.46%

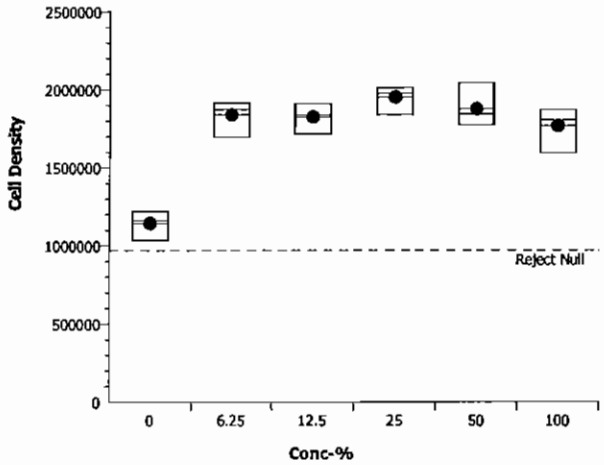
Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

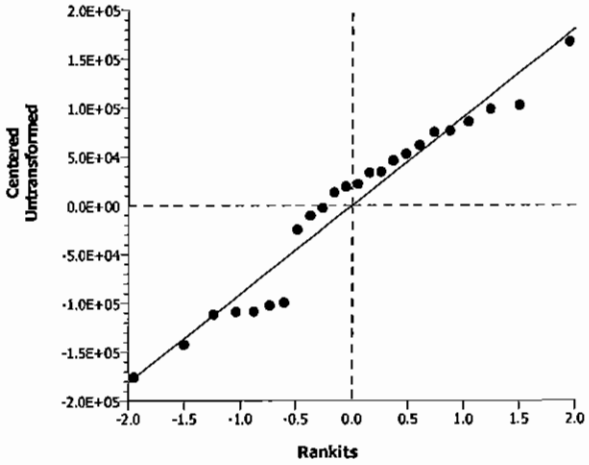
Analysis ID:	16-0914-4302	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:14	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.698E+6	1.862E+6	1.886E+6	1.915E+6
12.5		1.816E+6	1.912E+6	1.718E+6	1.860E+6
25		2.015E+6	1.951E+6	1.842E+6	2.006E+6
50		1.913E+6	2.046E+6	1.776E+6	1.779E+6
100		1.868E+6	1.745E+6	1.594E+6	1.872E+6

Graphics





CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-3033-3674	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 12:14	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	16-5254-4732	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:53	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	16-3039-1395	Code:	VCF1010050s	Client:	VCWPD
Sample Date:	06 Oct-10 03:16	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	34h (4.5 °C)	Station:	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	562369	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.948	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.840E+6	1.698E+6	1.915E+6	1.776E+4	9.728E+4	5.29%	-60.62%
12.5		4	1.827E+6	1.718E+6	1.912E+6	1.502E+4	8.229E+4	4.51%	-59.42%
25		4	1.954E+6	1.842E+6	2.015E+6	1.452E+4	7.953E+4	4.07%	-70.5%
50		4	1.879E+6	1.776E+6	2.046E+6	2.349E+4	1.287E+5	6.85%	-63.95%
100		4	1.770E+6	1.594E+6	1.872E+6	2.395E+4	1.312E+5	7.41%	-54.46%

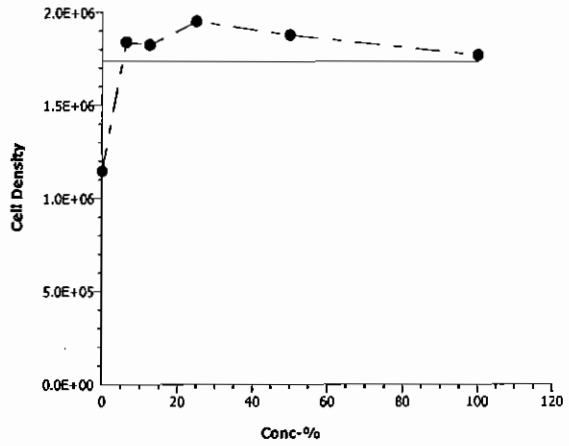
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.698E+6	1.862E+6	1.886E+6	1.915E+6
12.5		1.816E+6	1.912E+6	1.718E+6	1.860E+6
25		2.015E+6	1.951E+6	1.842E+6	2.006E+6
50		1.913E+6	2.046E+6	1.776E+6	1.779E+6
100		1.868E+6	1.745E+6	1.594E+6	1.872E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	09-3033-3674	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:14	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	16-5254-4732	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:53	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	16-3039-1395	**Code:**	VCF1010050s	**Client:**	VCWPD
Sample Date:	06 Oct-10 03:16	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	34h (4.5 °C)	**Station:**	MO-THO		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	80			80	80	0	0	0.0%	0
12.5		1	98			98	98	0	0	0.0%	0
25		1	137			137	137	0	0	0.0%	0
50		1	213			213	213	0	0	0.0%	0
100		1	313			313	313	0	0	0.0%	0
Overall		6	151.7			69	313				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	442.2	395.1	489.3	195	531	23.18	139.1	31.46%	0
12.5		5	578	576.5	579.5	573	585	0.7454	4.472	0.77%	0
25		5	740.8	736.3	745.3	721	755	2.234	13.41	1.81%	0
50		5	1092	1088	1096	1078	1106	1.728	10.37	0.95%	0
100		5	1741	1735	1748	1712	1765	3.235	19.41	1.12%	0
Overall		30	838.5			195	1765				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	136			136	136	0	0	0.0%	0
12.5		1	173			173	173	0	0	0.0%	0
25		1	248			248	248	0	0	0.0%	0
50		1	250			250	250	0	0	0.0%	0
100		1	250			250	250	0	0	0.0%	0
Overall		6	195.3			115	250				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		80
12.5		98
25		137
50		213
100		313

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		491	499	495	195	531
12.5		579	576	577	585	573
25		746	734	748	755	721
50		1106	1087	1095	1094	1078
100		1765	1736	1745	1748	1712

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		136
12.5		173
25		248
50		250
100		250

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MPK
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.051

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	25.00 %
	TUc =	4.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

for: Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	01-1281-0255	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:52	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-0721-8109	**Code:**	VCF1010051af	**Client:**	VCWPD
Sample Date:	06 Oct-10 04:30	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	34h (4.5 °C)	**Station:**	MO-MPK		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
19-2739-7707	7d Survival Rate	100	>100	N/A	12.71%	1	Steel Many-One Rank Test
16-1019-6199	Mean Dry Biomass-mg	25	50	35.36	19.24%	4	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
17-8808-4272	7d Survival Rate	EC5	21.25	N/A	N/A	4.706	Linear Interpolation (ICPIN)
		EC10	96	N/A	N/A	1.042	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
12-4599-4932	Mean Dry Biomass-mg	IC5	16.82	N/A	29.96	5.944	Linear Interpolation (ICPIN)
		IC10	21.15	N/A	47.29	4.729	
		IC15	26.95	6.175	137.5	3.711	
		IC20	44.92	4.121	N/A	2.226	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
17-8808-4272	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
19-2739-7707	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
12-4599-4932	Mean Dry Biomass-mg	Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
16-1019-6199	Mean Dry Biomass-mg	Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
16-1019-6199	Mean Dry Biomass-mg	PMSD	0.1924	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9418	0.9916	0.8667	1	0.01217	0.06667	6.9%	0.0%
6.25		4	0.9333	0.8981	0.9685	0.8	1	0.01721	0.09428	10.1%	3.45%
12.5		4	0.95	0.9376	0.9624	0.9333	1	0.006086	0.03333	3.51%	1.72%
25		4	0.8833	0.8595	0.9072	0.8	0.9333	0.01165	0.06383	7.23%	8.62%
50		4	0.9333	0.8981	0.9685	0.8	1	0.01721	0.09428	10.1%	3.45%
100		4	0.8667	0.8315	0.9019	0.7333	0.9333	0.01721	0.09428	10.88%	10.34%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.36	0.4084	0.314	0.4467	0.01184	0.06484	16.88%	0.0%
6.25		4	0.3897	0.3798	0.3995	0.364	0.418	0.004818	0.02639	6.77%	-1.43%
12.5		4	0.3905	0.3738	0.4072	0.3573	0.4533	0.00818	0.0448	11.47%	-1.65%
25		4	0.332	0.3169	0.3471	0.2893	0.386	0.007392	0.04049	12.2%	13.58%
50		4	0.305	0.2908	0.3192	0.252	0.3333	0.006919	0.03789	12.42%	20.61%
100		4	0.3048	0.2912	0.3184	0.2547	0.34	0.006653	0.03644	11.95%	20.65%

Fathead Minnow 7-d Larval Survival and Growth Test **Aquatic Bioassay & Consulting Labs, Inc.**

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		1	0.8	1	0.9333
12.5		0.9333	0.9333	1	0.9333
25		0.9333	0.8	0.8667	0.9333
50		0.8	0.9333	1	1
100		0.8667	0.9333	0.7333	0.9333

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.418	0.364	0.406	0.3707
12.5		0.4533	0.3573	0.392	0.3593
25		0.334	0.2893	0.386	0.3187
50		0.252	0.3313	0.3333	0.3033
100		0.3047	0.34	0.2547	0.32

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	16-1019-6199	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 14:15	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	01-1281-0255	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:52	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-0721-8109	Code:	VCF1010051af	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	34h (4.5 °C)	Station:	MO-MPK		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	25	50	35.36	4	19.24%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-0.1791	2.407	0.0739	0.8806	Non-Significant Effect
		12.5	-0.2063	2.407	0.0739	0.8869	Non-Significant Effect
		25	1.699	2.407	0.0739	0.1700	Non-Significant Effect
		50*	2.579	2.407	0.0739	0.0360	Significant Effect
		100*	2.584	2.407	0.0739	0.0356	Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
PMSD	0.1924	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.827	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.03505498	0.007010996	5	3.719	0.0173	Significant Effect
Error	0.03393523	0.00188529	18			
Total	0.06899021	0.008896287	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	2.373	15.09	0.7955	Equal Variances
Variances	Mod Levene Equality of Variance	1.115	4.248	0.3875	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9679		0.6151	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.08684	0.2056	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.03187	2.576	0.9746	Normal Distribution
Distribution	D'Agostino Kurtosis	1.385	2.576	0.1661	Normal Distribution
Distribution	D'Agostino Omnibus	1.919	9.21	0.3832	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.3595	0.4088	0.314	0.4467	0.01204	0.06484	16.88%	0.0%
6.25		4	0.3897	0.3796	0.3997	0.364	0.418	0.004901	0.02639	6.77%	-1.43%
12.5		4	0.3905	0.3735	0.4075	0.3573	0.4533	0.00832	0.0448	11.47%	-1.65%
25		4	0.332	0.3166	0.3474	0.2893	0.386	0.007519	0.04049	12.2%	13.58%
50		4	0.305	0.2906	0.3194	0.252	0.3333	0.007037	0.03789	12.42%	20.61%
100		4	0.3048	0.291	0.3187	0.2547	0.34	0.006767	0.03644	11.95%	20.65%

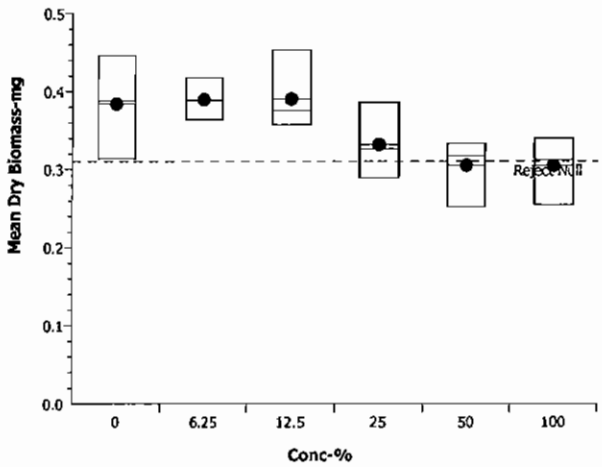
Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

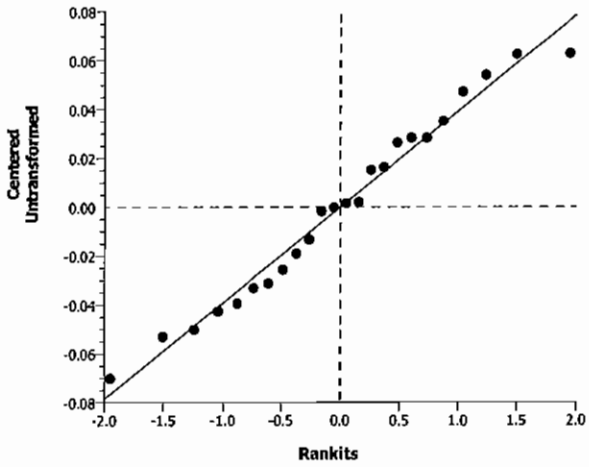
Analysis ID:	16-1019-6199	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 14:15	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.418	0.364	0.406	0.3707
12.5		0.4533	0.3573	0.392	0.3593
25		0.334	0.2893	0.386	0.3187
50		0.252	0.3313	0.3333	0.3033
100		0.3047	0.34	0.2547	0.32

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-2739-7707	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 14:14	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-1281-0255	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:52	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-0721-8109	**Code:**	VCF1010051af	**Client:**	VCWPD
Sample Date:	06 Oct-10 04:30	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	34h (4.5 °C)	**Station:**	MO-MPK		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	12.71%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	16	10	1	0.6105	Non-Significant Effect
		12.5	15.5	10	1	0.5438	Non-Significant Effect
		25	12.5	10	1	0.1834	Non-Significant Effect
		50	16	10	1	0.6105	Non-Significant Effect
		100	12.5	10	1	0.1834	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.941	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.08854257	0.01770851	5	1.102	0.3935	Non-Significant Effect
Error	0.2892569	0.01606983	18			
Total	0.3777995	0.03377834	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	2.451	15.09	0.7838	Equal Variances
Variances	Mod Levene Equality of Variance	0.5379	4.248	0.7451	Equal Variances
Distribution	Shapiro-Wilk Normality	0.8586		0.0032	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.207	0.2056	0.0092	Non-normal Distribution
Distribution	D'Agostino Skewness	1.721	2.576	0.0852	Normal Distribution
Distribution	D'Agostino Kurtosis	0.5152	2.576	0.6064	Normal Distribution
Distribution	D'Agostino Omnibus	3.228	9.21	0.1991	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	19-2739-7707	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 14:14	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9413	0.992	0.8667	1	0.01238	0.06667	6.9%	0.0%
6.25		4	0.9333	0.8975	0.9692	0.8	1	0.01751	0.09428	10.1%	3.45%
12.5		4	0.95	0.9373	0.9627	0.9333	1	0.00619	0.03333	3.51%	1.72%
25		4	0.8833	0.8591	0.9076	0.8	0.9333	0.01185	0.06383	7.23%	8.62%
50		4	0.9333	0.8975	0.9692	0.8	1	0.01751	0.09428	10.1%	3.45%
100		4	0.8667	0.8308	0.9025	0.7333	0.9333	0.01751	0.09428	10.88%	10.34%

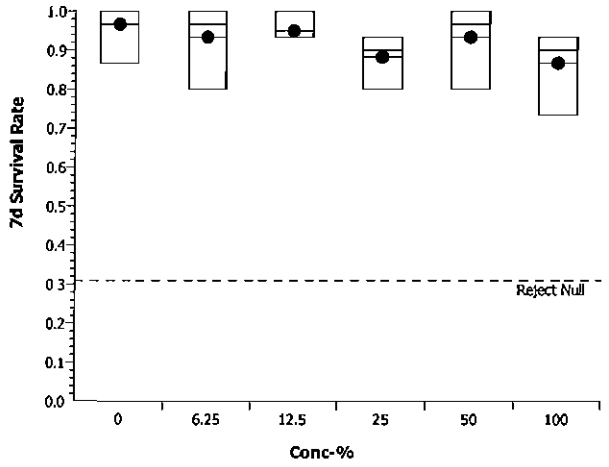
Angular (Corrected) Transformed Summary

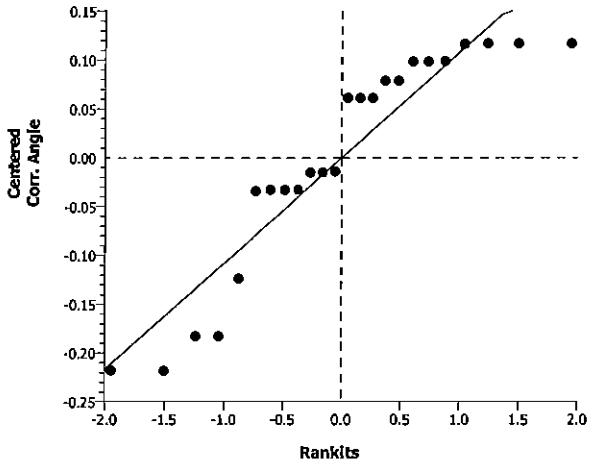
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.38	1.334	1.427	1.197	1.441	0.02269	0.1222	8.85%	0.0%
6.25		4	1.325	1.265	1.385	1.107	1.441	0.02931	0.1579	11.92%	4.01%
12.5		4	1.343	1.318	1.368	1.31	1.441	0.01223	0.06585	4.91%	2.73%
25		4	1.231	1.194	1.268	1.107	1.31	0.01821	0.09809	7.97%	10.82%
50		4	1.325	1.265	1.385	1.107	1.441	0.02931	0.1579	11.92%	4.01%
100		4	1.211	1.161	1.262	1.028	1.31	0.0247	0.133	10.98%	12.25%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		1	0.8	1	0.9333
12.5		0.9333	0.9333	1	0.9333
25		0.9333	0.8	0.8667	0.9333
50		0.8	0.9333	1	1
100		0.8667	0.9333	0.7333	0.9333

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	12-4599-4932	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 14:15	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	01-1281-0255	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:52	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-0721-8109	Code:	VCF1010051af	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	34h (4.5 °C)	Station:	MO-MPK		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2895625	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.827	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	16.82	N/A	29.96	5.944	3.338	N/A
IC10	21.15	N/A	47.29	4.729	2.115	N/A
IC15	26.95	6.175	137.5	3.711	0.7274	16.2
IC20	44.92	4.121	N/A	2.226	N/A	24.27
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.314	0.4467	0.01184	0.06484	16.88%	0.0%
6.25		4	0.3897	0.364	0.418	0.004818	0.02639	6.77%	-1.43%
12.5		4	0.3905	0.3573	0.4533	0.00818	0.0448	11.47%	-1.65%
25		4	0.332	0.2893	0.386	0.007392	0.04049	12.2%	13.58%
50		4	0.305	0.252	0.3333	0.006919	0.03789	12.42%	20.61%
100		4	0.3048	0.2547	0.34	0.006653	0.03644	11.95%	20.65%

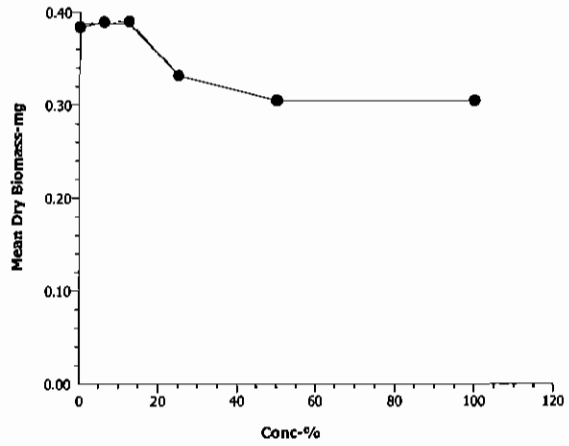
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.418	0.364	0.406	0.3707
12.5		0.4533	0.3573	0.392	0.3593
25		0.334	0.2893	0.386	0.3187
50		0.252	0.3313	0.3333	0.3033
100		0.3047	0.34	0.2547	0.32

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	12-4599-4932	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 14:15	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	17-8808-4272	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 14:14	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	01-1281-0255	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:52	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-0721-8109	**Code:**	VCF1010051af	**Client:**	VCWPD
Sample Date:	06 Oct-10 04:30	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	34h (4.5 °C)	**Station:**	MO-MPK		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2895625	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.941	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	21.25	N/A	N/A	4.706	N/A	N/A
EC10	96	N/A	N/A	1.042	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9667	0.8667	1	0.01217	0.06667	6.9%	0.0%	58	60
6.25		4	0.9333	0.8	1	0.01721	0.09428	10.1%	3.45%	56	60
12.5		4	0.95	0.9333	1	0.006086	0.03333	3.51%	1.72%	57	60
25		4	0.8833	0.8	0.9333	0.01165	0.06383	7.23%	8.62%	53	60
50		4	0.9333	0.8	1	0.01721	0.09428	10.1%	3.45%	56	60
100		4	0.8667	0.7333	0.9333	0.01721	0.09428	10.88%	10.34%	52	60

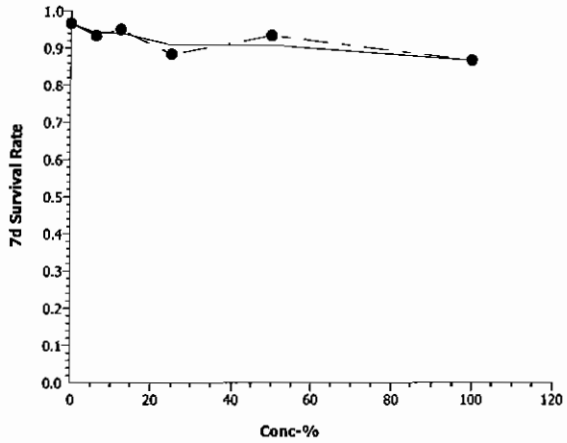
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		1	0.8	1	0.9333
12.5		0.9333	0.9333	1	0.9333
25		0.9333	0.8	0.8667	0.9333
50		0.8	0.9333	1	1
100		0.8667	0.9333	0.7333	0.9333

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	17-8808-4272	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 14:14	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	01-1281-0255	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:52	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-0721-8109	Code:	VCF1010051af	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	34h (4.5 °C)	Station:	MO-MPK		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	42	42	42	42	42	0	0	0.0%	0
Overall		16	51.38			42	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	357.4	351.8	363	341	391	2.757	16.54	4.63%	0
12.5		8	316.8	315.7	317.8	310	320	0.5175	3.105	0.98%	0
25		8	308.9	307.8	309.9	304	311	0.5074	3.044	0.99%	0
50		8	304.9	301.2	308.5	292	323	1.796	10.78	3.54%	0
100		8	286.5	283.2	289.8	269	301	1.613	9.681	3.38%	0
Overall		48	318.9			269	391				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.313	7.045	7.58	6.1	8.4	0.132	0.7918	10.83%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.246			5.9	8.4				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	75	75	75	75	75	0	0	0.0%	0
Overall		16	80.13			75	90				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		42	42	42	42	42	42	42	42

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		341	353	355	345	345	391	371	358
12.5		315	317	317	318	319	320	318	310
25		304	310	311	310	310	311	311	304
50		292	300	300	300	320	303	323	301
100		269	278	285	287	288	291	301	293

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	8.4	7.8	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		75	75	75	75	75	75	75	75

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MPK
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.051

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	21-3489-6802	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:52	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-5090-8840	**Code:**	VCF1010051ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 04:30	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	34h (4.5 °C)	**Station:**	MO-MPK		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
01-5275-8530	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
04-0455-3946	Reproduction	100	>100	N/A	14.05%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
01-1713-1409	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
04-1511-6213	Reproduction	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
01-1713-1409	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
01-5275-8530	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
04-0455-3946	Reproduction	Control Resp	18.9	15 - NL	Yes	Result Within Limits
04-1511-6213	Reproduction	Control Resp	18.9	15 - NL	Yes	Result Within Limits
04-0455-3946	Reproduction	PMSD	0.1405	0.13 - 0.47	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	18.9	17.88	19.92	13	22	0.4978	2.726	14.43%	0.0%
6.25		10	19.5	18.86	20.14	17	22	0.3133	1.716	8.8%	-3.18%
12.5		10	19.2	17.83	20.57	12	24	0.6711	3.676	19.14%	-1.59%
25		10	19.9	19.05	20.75	16	24	0.4168	2.283	11.47%	-5.29%
50		10	18.8	17.89	19.71	14	23	0.4456	2.44	12.98%	0.53%
100		10	18.8	17.94	19.66	15	22	0.4199	2.3	12.23%	0.53%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	21	18	20	19	22	17	21	17	13	21
6.25		21	20	22	21	18	18	21	19	17	18
12.5		24	15	21	22	22	21	17	12	20	18
25		21	18	22	24	20	19	16	21	18	20
50		20	18	20	17	18	23	19	18	21	14
100		20	17	19	16	21	19	18	22	21	15

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-0455-3946	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 11:00	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	21-3489-6802	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:52	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-5090-8840	Code:	VCF1010051ac	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	34h (4.5 °C)	Station:	MO-MPK		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	14.05%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-0.5174	2.289	2.655	0.9433	Non-Significant Effect
		12.5	-0.2587	2.289	2.655	0.8989	Non-Significant Effect
		25	-0.8623	2.289	2.655	0.9767	Non-Significant Effect
		50	0.08623	2.289	2.655	0.8064	Non-Significant Effect
		100	0.08623	2.289	2.655	0.8064	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	18.9	15 - NL	Yes	Result Within Limits
PMSD	0.1405	0.13 - 0.47	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.902	3.2	0.1601	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	9.883333	1.976667	5	0.294	0.9142	Non-Significant Effect
Error	363.1	6.724074	54			
Total	372.9833	8.700741	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.556	15.09	0.3518	Equal Variances
Variances	Mod Levene Equality of Variance	0.7788	3.377	0.5693	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9719		0.1806	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1046	0.1331	0.1000	Normal Distribution
Distribution	D'Agostino Skewness	1.864	2.576	0.0623	Normal Distribution
Distribution	D'Agostino Kurtosis	0.7555	2.576	0.4499	Normal Distribution
Distribution	D'Agostino Omnibus	4.046	9.21	0.1323	Normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	18.9	17.86	19.94	13	22	0.5063	2.726	14.43%	0.0%
6.25		10	19.5	18.85	20.15	17	22	0.3186	1.716	8.8%	-3.18%
12.5		10	19.2	17.8	20.6	12	24	0.6826	3.676	19.14%	-1.59%
25		10	19.9	19.03	20.77	16	24	0.4239	2.283	11.47%	-5.29%
50		10	18.8	17.87	19.73	14	23	0.4532	2.44	12.98%	0.53%
100		10	18.8	17.93	19.67	15	22	0.4271	2.3	12.23%	0.53%

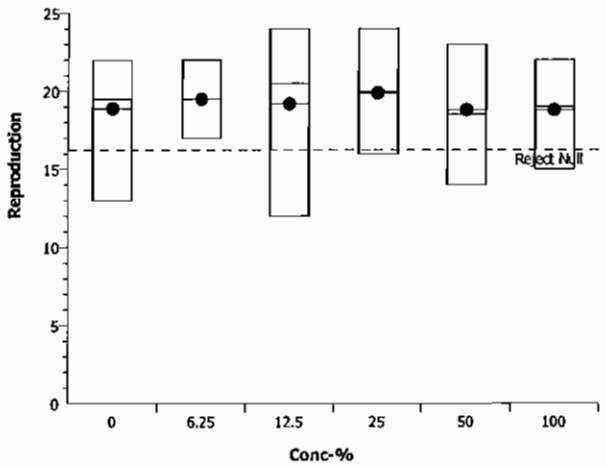
Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

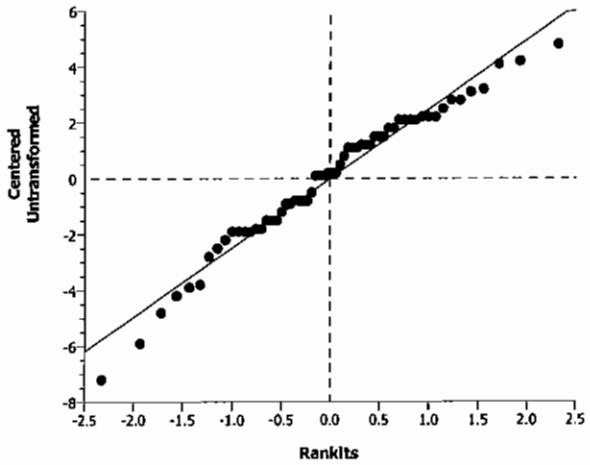
Analysis ID:	04-0455-3946	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:00	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	21	18	20	19	22	17	21	17	13	21
6.25		21	20	22	21	18	18	21	19	17	18
12.5		24	15	21	22	22	21	17	12	20	18
25		21	18	22	24	20	19	16	21	18	20
50		20	18	20	17	18	23	19	18	21	14
100		20	17	19	16	21	19	18	22	21	15

Graphics





CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-1511-6213	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 11:00	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	21-3489-6802	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:52	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-5090-8840	Code:	VCF1010051ac	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	34h (4.5 °C)	Station:	MO-MPK		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	4140327	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	18.9	15 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.902	3.2	0.1601	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	18.9	13	22	0.4978	2.726	14.43%	0.0%
6.25		10	19.5	17	22	0.3133	1.716	8.8%	-3.18%
12.5		10	19.2	12	24	0.6711	3.676	19.14%	-1.59%
25		10	19.9	16	24	0.4168	2.283	11.47%	-5.29%
50		10	18.8	14	23	0.4456	2.44	12.98%	0.53%
100		10	18.8	15	22	0.4199	2.3	12.23%	0.53%

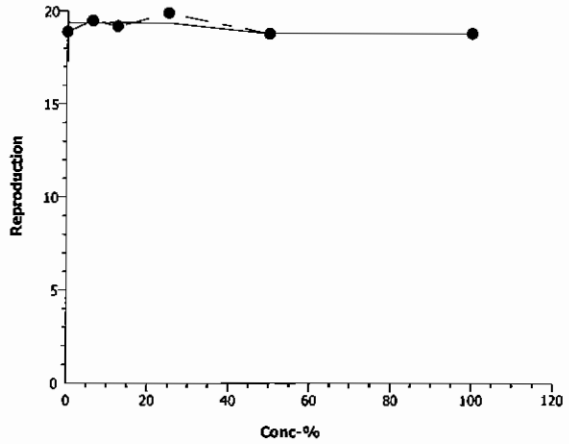
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	21	18	20	19	22	17	21	17	13	21
6.25		21	20	22	21	18	18	21	19	17	18
12.5		24	15	21	22	22	21	17	12	20	18
25		21	18	22	24	20	19	16	21	18	20
50		20	18	20	17	18	23	19	18	21	14
100		20	17	19	16	21	19	18	22	21	15

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-1511-6213	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:00	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	01-1713-1409	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:59	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	21-3489-6802	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:52	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-5090-8840	Code:	VCF1010051ac	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	34h (4.5 °C)	Station:	MO-MPK		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	453528	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

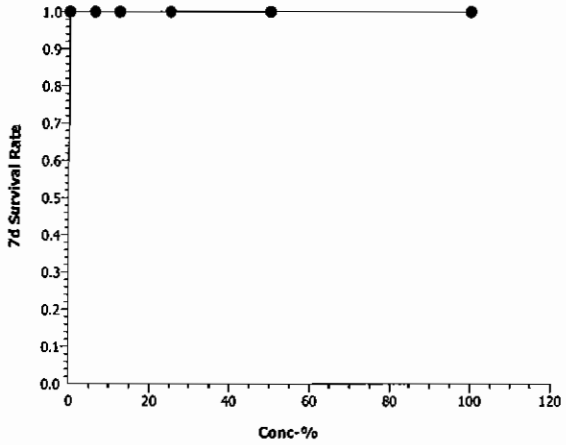
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	01-1713-1409	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:59	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	01-5275-8530	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:59	Analysis:	STP 2x2 Contingency Tables	Official Results:	Yes
Batch ID:	21-3489-6802	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:52	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-5090-8840	Code:	VCF1010051ac	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	34h (4.5 °C)	Station:	MO-MPK		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

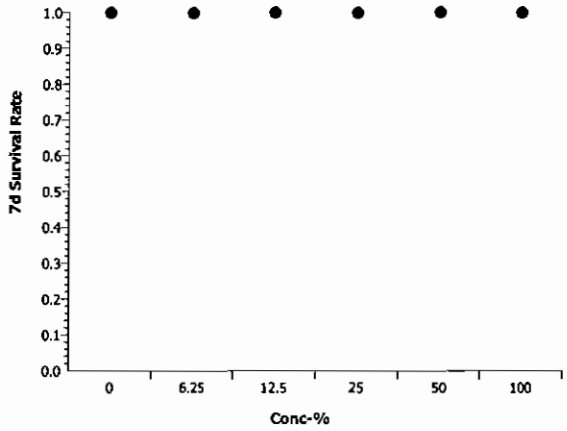
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	01-5275-8530	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:59	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	21-3489-6802	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:52	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-5090-8840	Code:	VCF1010051ac	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	34h (4.5 °C)	Station:	MO-MPK		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	42	42	42	42	42	0	0	0.0%	0
Overall		16	51.38			42	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	357.4	351.8	363	341	391	2.757	16.54	4.63%	0
12.5		8	316.8	315.7	317.8	310	320	0.5175	3.105	0.98%	0
25		8	308.9	307.8	309.9	304	311	0.5074	3.044	0.99%	0
50		8	304.9	301.2	308.5	292	323	1.796	10.78	3.54%	0
100		8	286.5	283.2	289.8	269	301	1.613	9.681	3.38%	0
Overall		48	318.9			269	391				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.313	7.045	7.58	6.1	8.4	0.132	0.7918	10.83%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.246			5.9	8.4				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	75	75	75	75	75	0	0	0.0%	0
Overall		16	80.13			75	90				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		42	42	42	42	42	42	42	42

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		341	353	355	345	345	391	371	358
12.5		315	317	317	318	319	320	318	310
25		304	310	311	310	310	311	311	304
50		292	300	300	300	320	303	323	301
100		269	278	285	287	288	291	301	293

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	8.4	7.8	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		75	75	75	75	75	75	75	75

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MPK
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.051

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

R. Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Test Code: 05-9868-2214/VCF1010051sel

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	00-4335-0083	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:51	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	06-4810-1680	Code:	VCF1010051s	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	32h (4.5 °C)	Station:	MO-MPK		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
00-8368-4811	Cell Density	100	>100	N/A	16.28%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
01-5932-8315	Cell Density	IC5	65.58	N/A	N/A	1.525	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
00-8368-4811	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
01-5932-8315	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
00-8368-4811	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
01-5932-8315	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
00-8368-4811	Cell Density	PMSD	0.1628	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.117E+6	1.175E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.923E+6	1.864E+6	1.983E+6	1.782E+6	2.098E+6	2.904E+4	1.591E+5	8.27%	-67.86%
12.5		4	1.873E+6	1.826E+6	1.920E+6	1.719E+6	1.983E+6	2.282E+4	1.250E+5	6.67%	-63.47%
25		4	1.634E+6	1.585E+6	1.682E+6	1.520E+6	1.797E+6	2.378E+4	1.303E+5	7.97%	-42.59%
50		4	1.586E+6	1.553E+6	1.619E+6	1.510E+6	1.715E+6	1.630E+4	8.927E+4	5.63%	-38.42%
100		4	1.519E+6	1.514E+6	1.523E+6	1.502E+6	1.531E+6	2.302E+3	1.261E+4	0.83%	-32.53%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.782E+6	1.795E+6	2.018E+6	2.098E+6
12.5		1.966E+6	1.983E+6	1.824E+6	1.719E+6
25		1.538E+6	1.520E+6	1.797E+6	1.680E+6
50		1.553E+6	1.715E+6	1.510E+6	1.566E+6
100		1.531E+6	1.516E+6	1.525E+6	1.502E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-8368-4811	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:24	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	00-4335-0083	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:51	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	06-4810-1680	**Code:**	VCF1010051s	**Client:**	VCWPD
Sample Date:	06 Oct-10 04:30	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	32h (4.5 °C)	**Station:**	MO-MPK		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	16.28%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-10.03	2.407	186600	1.0000	Non-Significant Effect
		12.5	-9.383	2.407	186600	1.0000	Non-Significant Effect
		25	-6.296	2.407	186600	1.0000	Non-Significant Effect
		50	-5.68	2.407	186600	1.0000	Non-Significant Effect
		100	-4.809	2.407	186600	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1628	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.802	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	1.569066E+12	3.138133E+11	5	26.12	<0.0001	Significant Effect
Error	2.162473E+11	12013740000	18			
Total	1.785314E+12	3.25827E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	10.8	15.09	0.0555	Equal Variances
Variances	Mod Levene Equality of Variance	3.282	4.248	0.0279	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9638		0.5196	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.0883	0.2056	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.2985	2.576	0.7653	Normal Distribution
Distribution	D'Agostino Kurtosis	1.27	2.576	0.2041	Normal Distribution
Distribution	D'Agostino Omnibus	1.702	9.21	0.4270	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.116E+6	1.175E+6	1.037E+6	1.222E+6	1.446E+4	7.786E+4	6.8%	0.0%
6.25		4	1.923E+6	1.863E+6	1.984E+6	1.782E+6	2.098E+6	2.954E+4	1.591E+5	8.27%	-67.86%
12.5		4	1.873E+6	1.825E+6	1.921E+6	1.719E+6	1.983E+6	2.321E+4	1.250E+5	6.67%	-63.47%
25		4	1.634E+6	1.584E+6	1.683E+6	1.520E+6	1.797E+6	2.419E+4	1.303E+5	7.97%	-42.59%
50		4	1.586E+6	1.552E+6	1.620E+6	1.510E+6	1.715E+6	1.658E+4	8.927E+4	5.63%	-38.42%
100		4	1.519E+6	1.514E+6	1.523E+6	1.502E+6	1.531E+6	2.341E+3	1.261E+4	0.83%	-32.53%

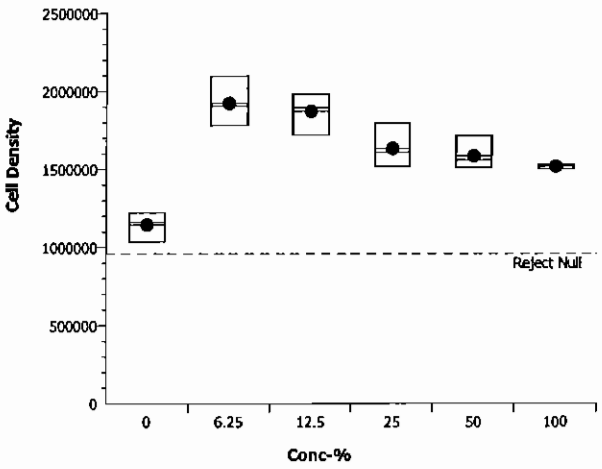
Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

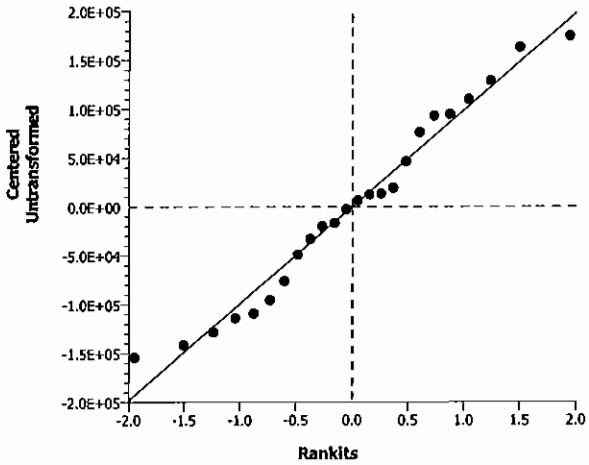
Analysis ID:	00-8368-4811	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:24	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.782E+6	1.795E+6	2.018E+6	2.098E+6
12.5		1.966E+6	1.983E+6	1.824E+6	1.719E+6
25		1.538E+6	1.520E+6	1.797E+6	1.680E+6
50		1.553E+6	1.715E+6	1.510E+6	1.566E+6
100		1.531E+6	1.516E+6	1.525E+6	1.502E+6

Graphics





CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	01-5932-8315	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 12:24	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	00-4335-0083	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:51	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	06-4810-1680	Code:	VCF1010051s	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	32h (4.5 °C)	Station:	MO-MPK		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	9495566	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.802	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	65.58	N/A	N/A	1.525	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.923E+6	1.782E+6	2.098E+6	2.904E+4	1.591E+5	8.27%	-67.86%
12.5		4	1.873E+6	1.719E+6	1.983E+6	2.282E+4	1.250E+5	6.67%	-63.47%
25		4	1.634E+6	1.520E+6	1.797E+6	2.378E+4	1.303E+5	7.97%	-42.59%
50		4	1.586E+6	1.510E+6	1.715E+6	1.630E+4	8.927E+4	5.63%	-38.42%
100		4	1.519E+6	1.502E+6	1.531E+6	2.302E+3	1.261E+4	0.83%	-32.53%

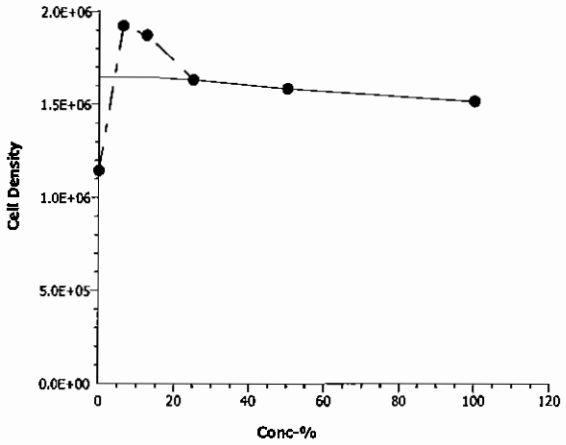
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.782E+6	1.795E+6	2.018E+6	2.098E+6
12.5		1.966E+6	1.983E+6	1.824E+6	1.719E+6
25		1.538E+6	1.520E+6	1.797E+6	1.680E+6
50		1.553E+6	1.715E+6	1.510E+6	1.566E+6
100		1.531E+6	1.516E+6	1.525E+6	1.502E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	01-5932-8315	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:24	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	00-4335-0083	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:51	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	06-4810-1680	Code:	VCF1010051s	Client:	VCWPD
Sample Date:	06 Oct-10 04:30	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	32h (4.5 °C)	Station:	MO-MPK		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	75			75	75	0	0	0.0%	0
12.5		1	72			72	72	0	0	0.0%	0
25		1	65			65	65	0	0	0.0%	0
50		1	60			60	60	0	0	0.0%	0
100		1	42			42	42	0	0	0.0%	0
Overall		6	63.83			42	75				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	424.6	418.6	430.6	404	453	2.964	17.78	4.19%	0
12.5		5	388	387.4	388.6	385	390	0.3118	1.871	0.48%	0
25		5	382.2	381.5	382.9	379	384	0.3206	1.924	0.5%	0
50		5	373.4	372.1	374.7	368	378	0.6412	3.847	1.03%	0
100		5	359	357	361	352	367	0.9789	5.874	1.64%	0
Overall		30	394			352	453				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	114			114	114	0	0	0.0%	0
12.5		1	118			118	118	0	0	0.0%	0
25		1	118			118	118	0	0	0.0%	0
50		1	95			95	95	0	0	0.0%	0
100		1	75			75	75	0	0	0.0%	0
Overall		6	105.8			75	118				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		75
12.5		72
25		65
50		60
100		42

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		404	425	420	421	453
12.5		388	389	388	385	390
25		383	383	382	379	384
50		373	376	372	368	378
100		359	362	352	355	367

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		114
12.5		118
25		118
50		95
100		75

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SIM
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.052

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	01-7512-4627	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:53	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	01-6684-3593	Code:	VCF1010052af	Client:	VCWPD
Sample Date:	06 Oct-10 05:45	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	33h (4.5 °C)	Station:	MO-SIM		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
12-0275-2741	7d Survival Rate	100	>100	N/A	7.22%	1	Steel Many-One Rank Test
11-4904-7528	Mean Dry Biomass-mg	100	>100	N/A	18.36%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
18-6280-1739	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
21-1131-6800	Mean Dry Biomass-mg	IC5	10.96	1.554	N/A	9.125	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
12-0275-2741	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
18-6280-1739	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
11-4904-7528	Mean Dry Biomass-mg	Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
21-1131-6800	Mean Dry Biomass-mg	Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
11-4904-7528	Mean Dry Biomass-mg	PMSD	0.1836	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9418	0.9916	0.8667	1	0.01217	0.06667	6.9%	0.0%
6.25		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-1.72%
12.5		4	0.9667	0.9418	0.9916	0.8667	1	0.01217	0.06667	6.9%	0.0%
25		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-1.72%
50		4	1	1	1	1	1	0	0	0.0%	-3.45%
100		4	1	1	1	1	1	0	0	0.0%	-3.45%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.36	0.4084	0.314	0.4467	0.01184	0.06484	16.88%	0.0%
6.25		4	0.417	0.4033	0.4307	0.3807	0.4533	0.006689	0.03664	8.79%	-8.55%
12.5		4	0.374	0.36	0.388	0.3293	0.406	0.006847	0.0375	10.03%	2.65%
25		4	0.368	0.3638	0.3722	0.358	0.3807	0.002032	0.01113	3.02%	4.21%
50		4	0.3682	0.3567	0.3796	0.3387	0.402	0.005602	0.03068	8.33%	4.17%
100		4	0.3822	0.3643	0.4	0.352	0.4533	0.008734	0.04784	12.52%	0.52%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		0.9333	1	1	1
12.5		1	1	0.8667	1
25		1	1	1	0.9333
50		1	1	1	1
100		1	1	1	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.4433	0.3907	0.3807	0.4533
12.5		0.406	0.3293	0.404	0.3567
25		0.374	0.358	0.3807	0.3593
50		0.402	0.386	0.346	0.3387
100		0.3667	0.352	0.3567	0.4533

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	11-4904-7528	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 14:25	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	01-7512-4627	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:53	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	01-6684-3593	Code:	VCF1010052af	Client:	VCWPD
Sample Date:	06 Oct-10 05:45	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	33h (4.5 °C)	Station:	MO-SIM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	18.36%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-1.12	2.407	0.07055	0.9876	Non-Significant Effect
		12.5	0.3469	2.407	0.07055	0.7117	Non-Significant Effect
		25	0.5516	2.407	0.07055	0.6249	Non-Significant Effect
		50	0.5459	2.407	0.07055	0.6274	Non-Significant Effect
		100	0.06824	2.407	0.07055	0.8124	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
PMSD	0.1836	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.941	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.006722834	0.001344567	5	0.7827	0.5752	Non-Significant Effect
Error	0.03092233	0.001717907	18			
Total	0.03764517	0.003062474	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	6.629	15.09	0.2497	Equal Variances
Variances	Mod Levene Equality of Variance	2.219	4.248	0.0972	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9665		0.5829	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1351	0.2056	0.3054	Normal Distribution
Distribution	D'Agostino Skewness	0.4927	2.576	0.6223	Normal Distribution
Distribution	D'Agostino Kurtosis	0.8537	2.576	0.3933	Normal Distribution
Distribution	D'Agostino Omnibus	0.9715	9.21	0.6152	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.3595	0.4088	0.314	0.4467	0.01204	0.06484	16.88%	0.0%
6.25		4	0.417	0.4031	0.4309	0.3807	0.4533	0.006804	0.03664	8.79%	-8.55%
12.5		4	0.374	0.3597	0.3883	0.3293	0.406	0.006964	0.0375	10.03%	2.65%
25		4	0.368	0.3638	0.3722	0.358	0.3807	0.002067	0.01113	3.02%	4.21%
50		4	0.3682	0.3565	0.3798	0.3387	0.402	0.005698	0.03068	8.33%	4.17%
100		4	0.3822	0.364	0.4004	0.352	0.4533	0.008883	0.04784	12.52%	0.52%

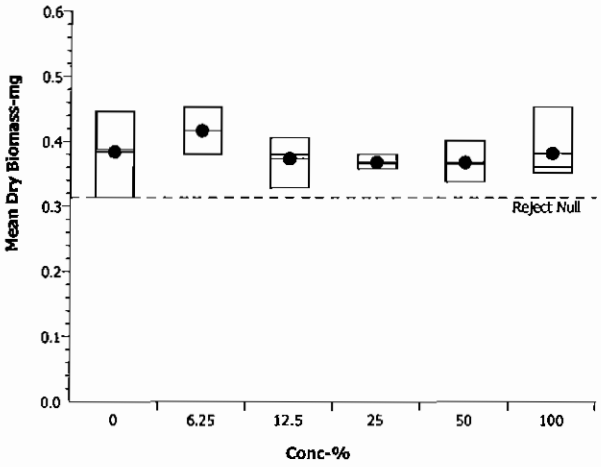
Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

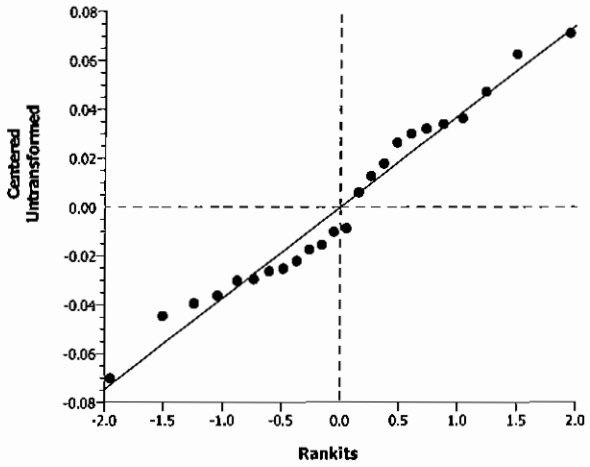
Analysis ID:	11-4904-7528	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 14:25	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.4433	0.3907	0.3807	0.4533
12.5		0.406	0.3293	0.404	0.3567
25		0.374	0.358	0.3807	0.3593
50		0.402	0.386	0.346	0.3387
100		0.3667	0.352	0.3567	0.4533

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	12-0275-2741	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 14:25	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-7512-4627	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:53	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	01-6684-3593	**Code:**	VCF1010052af	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:45	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	33h (4.5 °C)	**Station:**	MO-SIM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	7.22%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	18.5	10	1	0.8729	Non-Significant Effect
		12.5	18	10	2	0.8333	Non-Significant Effect
		25	18.5	10	1	0.8729	Non-Significant Effect
		50	20	10	1	0.9516	Non-Significant Effect
		100	20	10	1	0.9516	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.585	2.802	0.1271	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.01495474	0.002990948	5	0.4659	0.7966	Non-Significant Effect
Error	0.1155628	0.006420153	18			
Total	0.1305175	0.0094111	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	0.4659	4.248	0.7966	Equal Variances
Distribution	Shapiro-Wilk Normality	0.7489		<0.0001	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.3333	0.2056	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	3.137	2.576	0.0017	Non-normal Distribution
Distribution	D'Agostino Kurtosis	1.929	2.576	0.0537	Normal Distribution
Distribution	D'Agostino Omnibus	13.56	9.21	0.0011	Non-normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	12-0275-2741	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 14:25	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9413	0.992	0.8667	1	0.01238	0.06667	6.9%	0.0%
6.25		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-1.72%
12.5		4	0.9667	0.9413	0.992	0.8667	1	0.01238	0.06667	6.9%	0.0%
25		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-1.72%
50		4	1	1	1	1	1	0	0	0.0%	-3.45%
100		4	1	1	1	1	1	0	0	0.0%	-3.45%

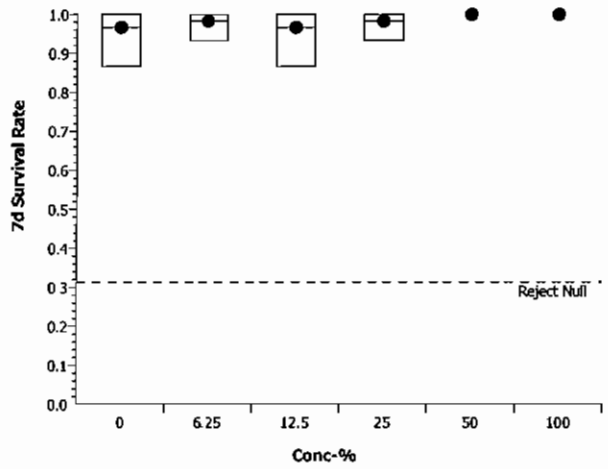
Angular (Corrected) Transformed Summary

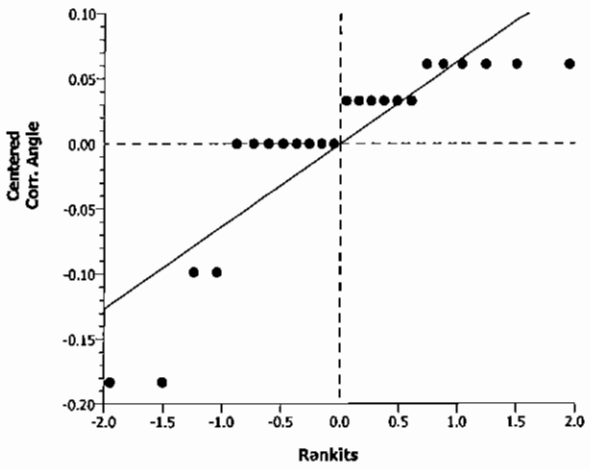
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.38	1.334	1.427	1.197	1.441	0.02269	0.1222	8.85%	0.0%
6.25		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-2.04%
12.5		4	1.38	1.334	1.427	1.197	1.441	0.02269	0.1222	8.85%	0.0%
25		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-2.04%
50		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-4.43%
100		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-4.43%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		0.9333	1	1	1
12.5		1	1	0.8667	1
25		1	1	1	0.9333
50		1	1	1	1
100		1	1	1	1

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	21-1131-6800	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 14:25	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	01-7512-4627	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:53	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	01-6684-3593	Code:	VCF1010052af	Client:	VCWPD
Sample Date:	06 Oct-10 05:45	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	33h (4.5 °C)	Station:	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3019480	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.941	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	10.96	1.554	N/A	9.125	N/A	64.34
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.314	0.4467	0.01184	0.06484	16.88%	0.0%
6.25		4	0.417	0.3807	0.4533	0.006689	0.03664	8.79%	-8.55%
12.5		4	0.374	0.3293	0.406	0.006847	0.0375	10.03%	2.65%
25		4	0.368	0.358	0.3807	0.002032	0.01113	3.02%	4.21%
50		4	0.3682	0.3387	0.402	0.005602	0.03068	8.33%	4.17%
100		4	0.3822	0.352	0.4533	0.008734	0.04784	12.52%	0.52%

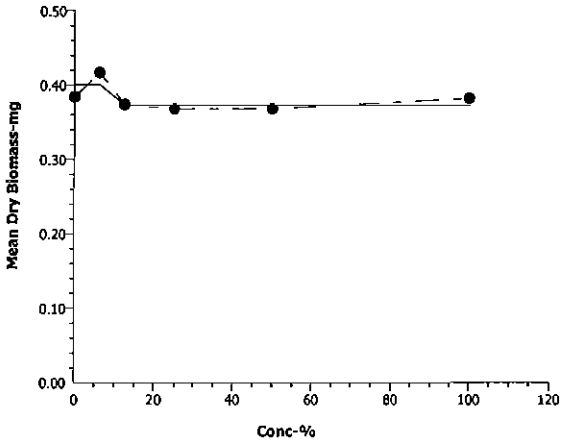
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.4433	0.3907	0.3807	0.4533
12.5		0.406	0.3293	0.404	0.3567
25		0.374	0.358	0.3807	0.3593
50		0.402	0.386	0.346	0.3387
100		0.3667	0.352	0.3567	0.4533

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	21-1131-6800	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 14:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-6280-1739	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	30 Nov-10 14:25	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	01-7512-4627	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:53	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	01-6684-3593	Code:	VCF1010052af	Client:	VCWPD
Sample Date:	06 Oct-10 05:45	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	33h (4.5 °C)	Station:	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3019480	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.585	2.802	0.1271	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9667	0.8667	1	0.01217	0.06667	6.9%	0.0%	58	60
6.25		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-1.72%	59	60
12.5		4	0.9667	0.8667	1	0.01217	0.06667	6.9%	0.0%	58	60
25		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-1.72%	59	60
50		4	1	1	1	0	0	0.0%	-3.45%	60	60
100		4	1	1	1	0	0	0.0%	-3.45%	60	60

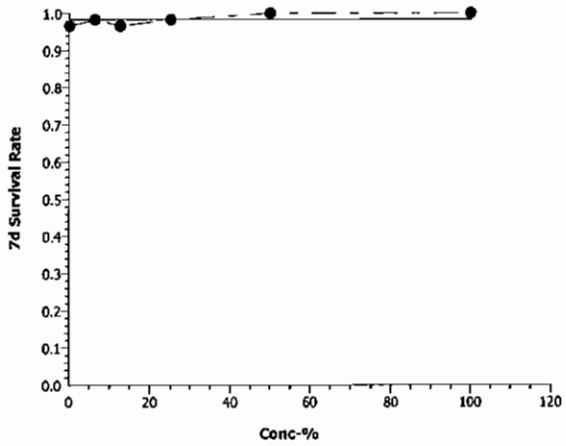
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		0.9333	1	1	1
12.5		1	1	0.8667	1
25		1	1	1	0.9333
50		1	1	1	1
100		1	1	1	1

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	18-6280-1739	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	30 Nov-10 14:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	01-7512-4627	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:53	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	01-6684-3593	**Code:**	VCF1010052af	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:45	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	33h (4.5 °C)	**Station:**	MO-SIM		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	45	45	45	45	45	0	0	0.0%	0
Overall		16	52.88			45	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	332	330.3	333.7	322	339	0.8545	5.127	1.54%	0
12.5		8	354.3	351.3	357.2	346	374	1.463	8.779	2.48%	0
25		8	397.1	392.3	402	380	421	2.401	14.41	3.63%	0
50		8	460.4	457.9	462.9	445	467	1.225	7.347	1.6%	0
100		8	592.1	586.2	598.1	577	625	2.923	17.54	2.96%	0
Overall		48	412.4			322	625				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.313	7.045	7.58	6.1	8.4	0.132	0.7918	10.83%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.246			5.9	8.4				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	187	187	187	187	187	0	0	0.0%	0
Overall		16	136.1			83	187				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		45	45	45	45	45	45	45	45

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		333	336	335	330	330	339	331	322
12.5		374	356	355	348	349	351	355	346
25		383	390	395	408	410	421	390	380
50		445	459	465	462	465	467	465	455
100		578	594	599	577	578	579	625	607

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	8.4	7.8	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		187	187	187	187	187	187	187	187

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SIM
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.052

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	12-3208-5447	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:53	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	16-9574-9295	Code:	VCF1010052ac	Client:	VCWPD
Sample Date:	06 Oct-10 05:45	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	33h (4.5 °C)	Station:	MO-SIM		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
20-4546-2607	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
08-9740-9799	Reproduction	100	>100	N/A	12.33%	1	Steel Many-One Rank Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
17-1338-4523	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
14-9665-8987	Reproduction	IC5	19.9	9.271	N/A	5.025	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
17-1338-4523	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
20-4546-2607	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
08-9740-9799	Reproduction	Control Resp	21.2	15 - NL	Yes	Result Within Limits
14-9665-8987	Reproduction	Control Resp	21.2	15 - NL	Yes	Result Within Limits
08-9740-9799	Reproduction	PMSD	0.1233	0.13 - 0.47	Yes	Result Below Limit

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21.2	20.44	21.96	18	25	0.3732	2.044	9.64%	0.0%
6.25		10	22.9	21.39	24.41	18	33	0.7376	4.04	17.64%	-8.02%
12.5		10	21.5	20.86	22.14	19	25	0.3133	1.716	7.98%	-1.42%
25		10	19.5	18.43	20.57	13	23	0.5253	2.877	14.75%	8.02%
50		10	21.6	20.83	22.37	18	24	0.3771	2.066	9.56%	-1.89%
100		10	20.6	19.94	21.26	18	24	0.3243	1.776	8.62%	2.83%

Ceriodaphnia 7-d Survival and Reproduction Test **Aquatic Bioassay & Consulting Labs, Inc.**

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	25	20	23	21	21	23	21	19	21	18
6.25		21	22	23	24	25	21	21	33	21	18
12.5		25	22	20	20	23	22	19	21	22	21
25		22	23	22	20	13	19	18	18	19	21
50		22	21	23	23	20	18	19	22	24	24
100		22	21	21	21	18	18	21	24	20	20

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	08-9740-9799	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 11:11	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes
Batch ID:	12-3208-5447	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:53	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	16-9574-9295	Code:	VCF1010052ac	Client:	VCWPD
Sample Date:	06 Oct-10 05:45	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	33h (4.5 °C)	Station:	MO-SIM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	12.33%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	119	75	4	0.9875	Non-Significant Effect
		12.5	110	75	5	0.9223	Non-Significant Effect
		25	88.5	75	5	0.3061	Non-Significant Effect
		50	112.5	75	5	0.9503	Non-Significant Effect
		100	97	75	3	0.5980	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	21.2	15 - NL	Yes	Result Within Limits
PMSD	0.1233	0.13 - 0.47	Yes	Result Below Limit

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	4.133	3.2	0.0004	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	63.88334	12.77667	5	1.958	0.0998	Non-Significant Effect
Error	352.3	6.524074	54			
Total	416.1833	19.30074	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	10.67	15.09	0.0583	Equal Variances
Variances	Mod Levene Equality of Variance	0.7344	3.377	0.6009	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9342		0.0030	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.1189	0.1331	0.0343	Normal Distribution
Distribution	D'Agostino Skewness	2.611	2.576	0.0090	Non-normal Distribution
Distribution	D'Agostino Kurtosis	3.406	2.576	0.0007	Non-normal Distribution
Distribution	D'Agostino Omnibus	18.42	9.21	<0.0001	Non-normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21.2	20.42	21.98	18	25	0.3796	2.044	9.64%	0.0%
6.25		10	22.9	21.36	24.44	18	33	0.7502	4.04	17.64%	-8.02%
12.5		10	21.5	20.85	22.15	19	25	0.3186	1.716	7.98%	-1.42%
25		10	19.5	18.41	20.59	13	23	0.5343	2.877	14.75%	8.02%
50		10	21.6	20.81	22.39	18	24	0.3836	2.066	9.56%	-1.89%
100		10	20.6	19.92	21.28	18	24	0.3299	1.776	8.62%	2.83%

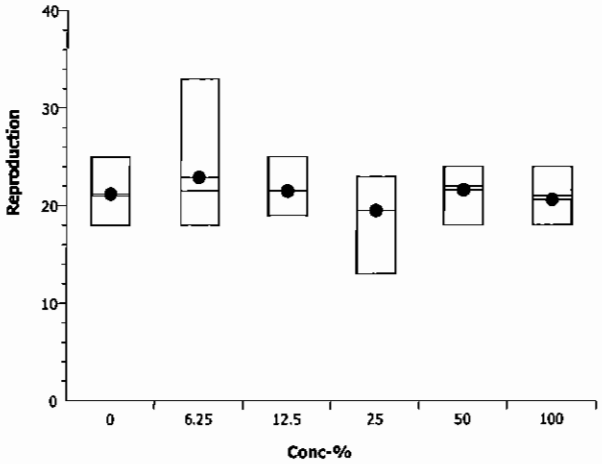
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

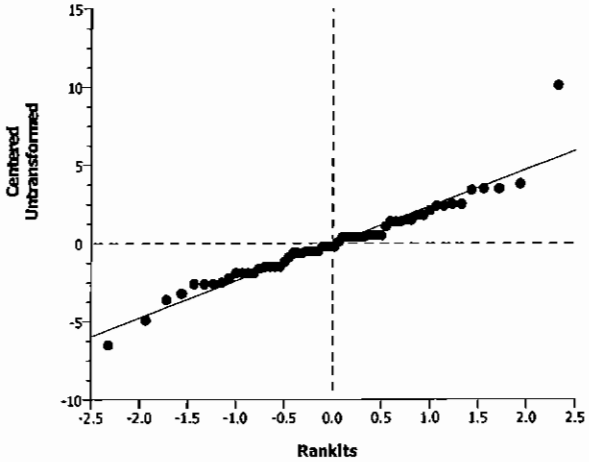
Analysis ID:	08-9740-9799	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:11	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	25	20	23	21	21	23	21	19	21	18
6.25		21	22	23	24	25	21	21	33	21	18
12.5		25	22	20	20	23	22	19	21	22	21
25		22	23	22	20	13	19	18	18	19	21
50		22	21	23	23	20	18	19	22	24	24
100		22	21	21	21	18	18	21	24	20	20

Graphics





Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	14-9665-8987	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 11:11	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	12-3208-5447	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:53	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	16-9574-9295	Code:	VCF1010052ac	Client:	VCWPD
Sample Date:	06 Oct-10 05:45	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	33h (4.5 °C)	Station:	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	8626193	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	21.2	15 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	19.9	9.271	N/A	5.025	N/A	10.79
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21.2	18	25	0.3732	2.044	9.64%	0.0%
6.25		10	22.9	18	33	0.7376	4.04	17.64%	-8.02%
12.5		10	21.5	19	25	0.3133	1.716	7.98%	-1.42%
25		10	19.5	13	23	0.5253	2.877	14.75%	8.02%
50		10	21.6	18	24	0.3771	2.066	9.56%	-1.89%
100		10	20.6	18	24	0.3243	1.776	8.62%	2.83%

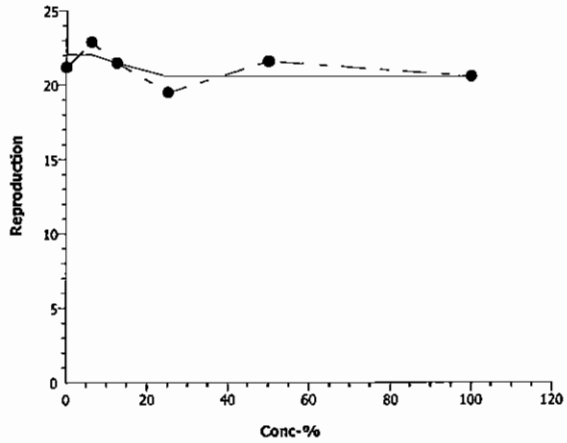
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	25	20	23	21	21	23	21	19	21	18
6.25		21	22	23	24	25	21	21	33	21	18
12.5		25	22	20	20	23	22	19	21	22	21
25		22	23	22	20	13	19	18	18	19	21
50		22	21	23	23	20	18	19	22	24	24
100		22	21	21	21	18	18	21	24	20	20

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-9665-8987	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:11	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	17-1338-4523	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:10	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	12-3208-5447	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:53	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	16-9574-9295	**Code:**	VCF1010052ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:45	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	33h (4.5 °C)	**Station:**	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	8626193	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

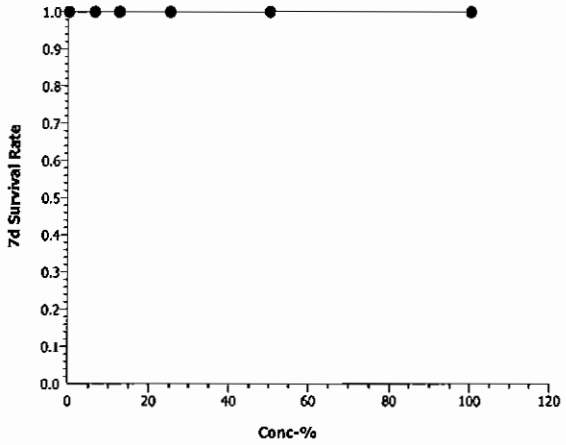
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	17-1338-4523	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:10	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	20-4546-2607	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:10	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	12-3208-5447	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:53	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	16-9574-9295	**Code:**	VCF1010052ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:45	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	33h (4.5 °C)	**Station:**	MO-SIM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

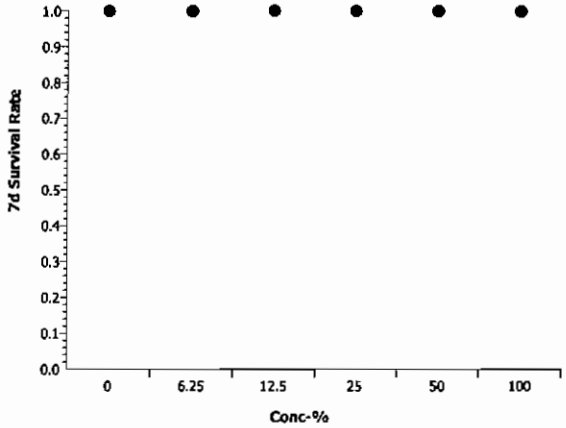
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	20-4546-2607	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:10	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Measurement Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	12-3208-5447	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:53	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	16-9574-9295	Code:	VCF1010052ac	Client:	VCWPD
Sample Date:	06 Oct-10 05:45	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	33h (4.5 °C)	Station:	MO-SIM		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	45	45	45	45	45	0	0	0.0%	0
Overall		16	52.88			45	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	332	330.3	333.7	322	339	0.8545	5.127	1.54%	0
12.5		8	354.3	351.3	357.2	346	374	1.463	8.779	2.48%	0
25		8	397.1	392.3	402	380	421	2.401	14.41	3.63%	0
50		8	460.4	457.9	462.9	445	467	1.225	7.347	1.6%	0
100		8	592.1	586.2	598.1	577	625	2.923	17.54	2.96%	0
Overall		48	412.4			322	625				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.313	7.045	7.58	6.1	8.4	0.132	0.7918	10.83%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.246			5.9	8.4				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	187	187	187	187	187	0	0	0.0%	0
Overall		16	136.1			83	187				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		45	45	45	45	45	45	45	45

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		333	336	335	330	330	339	331	322
12.5		374	356	355	348	349	351	355	346
25		383	390	395	408	410	421	390	380
50		445	459	465	462	465	467	465	455
100		578	594	599	577	578	579	625	607

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	8.4	7.8	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		187	187	187	187	187	187	187	187

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SIM
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.052

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	13-0641-0845	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:55	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	00-6671-4585	**Code:**	VCF1010052s	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:45	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	31h (4.5 °C)	**Station:**	MO-SIM		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
09-2109-8666	Cell Density	100	>100	N/A	10.8%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
04-6610-4259	Cell Density	IC5	95.27	60.73	N/A	1.05	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
04-6610-4259	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
09-2109-8666	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
04-6610-4259	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
09-2109-8666	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
09-2109-8666	Cell Density	PMSD	0.108	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.117E+6	1.175E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.553E+6	1.537E+6	1.569E+6	1.510E+6	1.597E+6	7.795E+3	4.270E+4	2.75%	-35.52%
12.5		4	1.496E+6	1.467E+6	1.524E+6	1.389E+6	1.568E+6	1.415E+4	7.750E+4	5.18%	-30.53%
25		4	1.545E+6	1.519E+6	1.571E+6	1.485E+6	1.620E+6	1.267E+4	6.937E+4	4.49%	-34.85%
50		4	1.490E+6	1.454E+6	1.526E+6	1.383E+6	1.614E+6	1.764E+4	9.663E+4	6.48%	-30.07%
100		4	1.366E+6	1.343E+6	1.389E+6	1.288E+6	1.420E+6	1.104E+4	6.047E+4	4.43%	-19.22%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.510E+6	1.581E+6	1.597E+6	1.523E+6
12.5		1.389E+6	1.533E+6	1.568E+6	1.492E+6
25		1.487E+6	1.485E+6	1.588E+6	1.620E+6
50		1.614E+6	1.505E+6	1.383E+6	1.459E+6
100		1.407E+6	1.420E+6	1.349E+6	1.288E+6

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-2109-8666	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 12:33	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	13-0641-0845	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:55	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	00-6671-4585	Code:	VCF1010052s	Client:	VCWPD
Sample Date:	06 Oct-10 05:45	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	31h (4.5 °C)	Station:	MO-SIM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	10.8%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-7.919	2.407	123700	1.0000	Non-Significant Effect
		12.5	-6.805	2.407	123700	1.0000	Non-Significant Effect
		25	-7.768	2.407	123700	1.0000	Non-Significant Effect
		50	-6.703	2.407	123700	1.0000	Non-Significant Effect
		100	-4.285	2.407	123700	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.108	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.925	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	4.842727E+11	96854540000	5	18.33	<0.0001	Significant Effect
Error	95091250000	5282847000	18			
Total	5.793639E+11	1.021374E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.832	15.09	0.8719	Equal Variances
Variances	Mod Levene Equality of Variance	0.3099	4.248	0.9006	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9608		0.4555	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1233	0.2056	0.4509	Normal Distribution
Distribution	D'Agostino Skewness	0.4526	2.576	0.6508	Normal Distribution
Distribution	D'Agostino Kurtosis	0.8747	2.576	0.3817	Normal Distribution
Distribution	D'Agostino Omnibus	0.97	9.21	0.6157	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.116E+6	1.175E+6	1.037E+6	1.222E+6	1.446E+4	7.786E+4	6.8%	0.0%
6.25		4	1.553E+6	1.537E+6	1.569E+6	1.510E+6	1.597E+6	7.928E+3	4.270E+4	2.75%	-35.52%
12.5		4	1.496E+6	1.466E+6	1.525E+6	1.389E+6	1.568E+6	1.439E+4	7.750E+4	5.18%	-30.53%
25		4	1.545E+6	1.519E+6	1.571E+6	1.485E+6	1.620E+6	1.288E+4	6.937E+4	4.49%	-34.85%
50		4	1.490E+6	1.453E+6	1.527E+6	1.383E+6	1.614E+6	1.794E+4	9.663E+4	6.48%	-30.07%
100		4	1.366E+6	1.343E+6	1.389E+6	1.288E+6	1.420E+6	1.123E+4	6.047E+4	4.43%	-19.22%

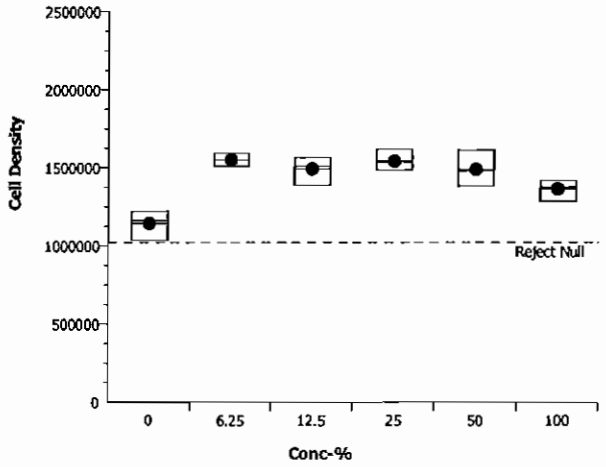
Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

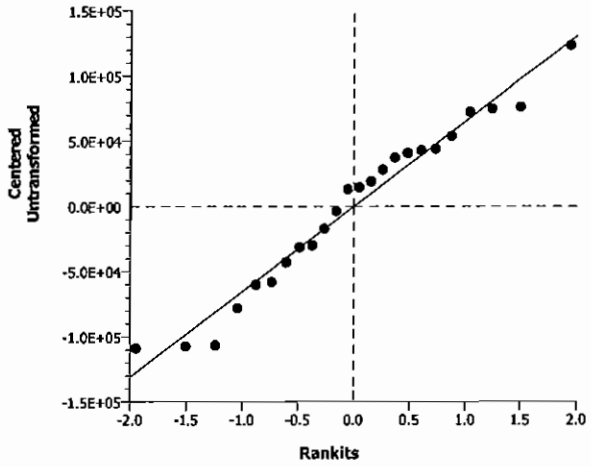
Analysis ID:	09-2109-8666	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:33	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.510E+6	1.581E+6	1.597E+6	1.523E+6
12.5		1.389E+6	1.533E+6	1.568E+6	1.492E+6
25		1.487E+6	1.485E+6	1.588E+6	1.620E+6
50		1.614E+6	1.505E+6	1.383E+6	1.459E+6
100		1.407E+6	1.420E+6	1.349E+6	1.288E+6

Graphics





CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-6610-4259	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:33	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	13-0641-0845	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:55	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	00-6671-4585	**Code:**	VCF1010052s	**Client:**	VCWPD
Sample Date:	06 Oct-10 05:45	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	31h (4.5 °C)	**Station:**	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3640187	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.925	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	95.27	60.73	N/A	1.05	N/A	1.647
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.553E+6	1.510E+6	1.597E+6	7.795E+3	4.270E+4	2.75%	-35.52%
12.5		4	1.496E+6	1.389E+6	1.568E+6	1.415E+4	7.750E+4	5.18%	-30.53%
25		4	1.545E+6	1.485E+6	1.620E+6	1.267E+4	6.937E+4	4.49%	-34.85%
50		4	1.490E+6	1.383E+6	1.614E+6	1.764E+4	9.663E+4	6.48%	-30.07%
100		4	1.366E+6	1.288E+6	1.420E+6	1.104E+4	6.047E+4	4.43%	-19.22%

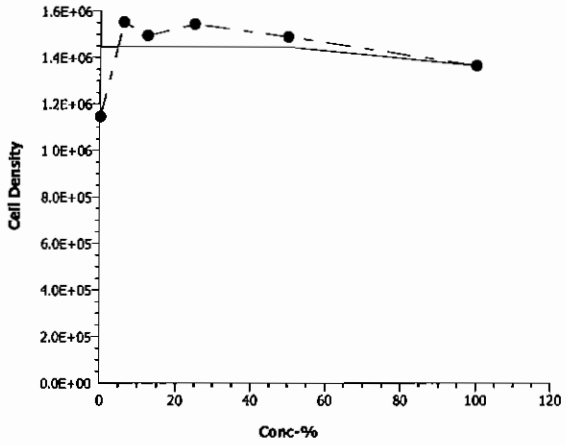
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.510E+6	1.581E+6	1.597E+6	1.523E+6
12.5		1.389E+6	1.533E+6	1.568E+6	1.492E+6
25		1.487E+6	1.485E+6	1.588E+6	1.620E+6
50		1.614E+6	1.505E+6	1.383E+6	1.459E+6
100		1.407E+6	1.420E+6	1.349E+6	1.288E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	04-6610-4259	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:33	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	13-0641-0845	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:55	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	00-6671-4585	Code:	VCF1010052s	Client:	VCWPD
Sample Date:	06 Oct-10 05:45	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	31h (4.5 °C)	Station:	MO-SIM		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	75			75	75	0	0	0.0%	0
12.5		1	66			66	66	0	0	0.0%	0
25		1	68			68	68	0	0	0.0%	0
50		1	70			70	70	0	0	0.0%	0
100		1	45			45	45	0	0	0.0%	0
Overall		6	65.5			45	75				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	422	421.2	422.8	420	426	0.3909	2.345	0.56%	0
12.5		5	463	458.1	467.9	438	475	2.412	14.47	3.13%	0
25		5	469.2	467.9	470.5	465	475	0.628	3.768	0.8%	0
50		5	529.8	528.8	530.8	528	535	0.5055	3.033	0.57%	0
100		5	657.4	656.9	657.9	655	659	0.2528	1.517	0.23%	0
Overall		30	496.3			420	659				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	130			130	130	0	0	0.0%	0
12.5		1	117			117	117	0	0	0.0%	0
25		1	145			145	145	0	0	0.0%	0
50		1	180			180	180	0	0	0.0%	0
100		1	187			187	187	0	0	0.0%	0
Overall		6	145.7			115	187				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		75
12.5		66
25		68
50		70
100		45

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		421	421	422	420	426
12.5		438	467	465	475	470
25		469	467	465	475	470
50		530	528	528	528	535
100		659	658	655	658	657

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		130
12.5		117
25		145
50		180
100		187

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-FIL
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.053

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	15-9982-7314	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:54	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	03-3140-8229	Code:	VCF1010053af	Client:	VCWPD
Sample Date:	06 Oct-10 07:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	32h (4.5 °C)	Station:	MO-FIL		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
03-9130-7963	7d Survival Rate	100	>100	N/A	16.43%	1	Steel Many-One Rank Test
08-1071-6892	Mean Dry Biomass-mg	100	>100	N/A	23.42%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
02-6505-9076	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
18-6430-5516	Mean Dry Biomass-mg	IC5	2.994	0.5636	N/A	33.4	Linear Interpolation (ICPIN)
		IC10	5.988	1.127	N/A	16.7	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
02-6505-9076	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
03-9130-7963	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
08-1071-6892	Mean Dry Biomass-mg	Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
18-6430-5516	Mean Dry Biomass-mg	Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
08-1071-6892	Mean Dry Biomass-mg	PMSD	0.2342	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9418	0.9916	0.8667	1	0.01217	0.06667	6.9%	0.0%
6.25		4	0.8333	0.7559	0.9107	0.5333	1	0.03784	0.2073	24.87%	13.79%
12.5		4	0.9667	0.9418	0.9916	0.8667	1	0.01217	0.06667	6.9%	0.0%
25		4	0.95	0.9127	0.9873	0.8	1	0.01826	0.1	10.53%	1.72%
50		4	0.95	0.9262	0.9738	0.8667	1	0.01165	0.06383	6.72%	1.72%
100		4	1	1	1	1	1	0	0	0.0%	-3.45%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.36	0.4084	0.314	0.4467	0.01184	0.06484	16.88%	0.0%
6.25		4	0.2913	0.2575	0.3251	0.1713	0.3673	0.01652	0.09048	31.06%	24.16%
12.5		4	0.3655	0.3587	0.3723	0.34	0.3833	0.003343	0.01831	5.01%	4.86%
25		4	0.3442	0.3356	0.3527	0.312	0.366	0.004171	0.02284	6.64%	10.41%
50		4	0.3737	0.3546	0.3928	0.31	0.4293	0.009343	0.05117	13.7%	2.73%
100		4	0.3457	0.3345	0.3568	0.3187	0.376	0.005459	0.0299	8.65%	10.02%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		0.9333	0.5333	0.8667	1
12.5		0.8667	1	1	1
25		0.8	1	1	1
50		0.8667	1	0.9333	1
100		1	1	1	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.3547	0.1713	0.272	0.3673
12.5		0.34	0.3673	0.3713	0.3833
25		0.312	0.366	0.3487	0.35
50		0.396	0.3593	0.31	0.4293
100		0.376	0.3187	0.3667	0.3213

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	08-1071-6892	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 9:46	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	15-9982-7314	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:54	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	03-3140-8229	Code:	VCF1010053af	Client:	VCWPD
Sample Date:	06 Oct-10 07:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	32h (4.5 °C)	Station:	MO-FIL		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	23.42%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25*	2.484	2.407	0.08996	0.0432	Significant Effect
		12.5	0.4995	2.407	0.08996	0.6478	Non-Significant Effect
		25	1.07	2.407	0.08996	0.3912	Non-Significant Effect
		50	0.2809	2.407	0.08996	0.7376	Non-Significant Effect
		100	1.03	2.407	0.08996	0.4086	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
PMSD	0.2342	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.566	2.802	0.1371	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.02183572	0.004367144	5	1.563	0.2206	Non-Significant Effect
Error	0.05028545	0.002793636	18			
Total	0.07212117	0.00716078	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	9.342	15.09	0.0962	Equal Variances
Variances	Mod Levene Equality of Variance	3.496	4.248	0.0221	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9676		0.6079	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.09897	0.2056	0.8536	Normal Distribution
Distribution	D'Agostino Skewness	1.225	2.576	0.2208	Normal Distribution
Distribution	D'Agostino Kurtosis	0.7661	2.576	0.4436	Normal Distribution
Distribution	D'Agostino Omnibus	2.086	9.21	0.3523	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.3595	0.4088	0.314	0.4467	0.01204	0.06484	16.88%	0.0%
6.25		4	0.2913	0.2569	0.3258	0.1713	0.3673	0.0168	0.09048	31.06%	24.16%
12.5		4	0.3655	0.3585	0.3725	0.34	0.3833	0.0034	0.01831	5.01%	4.86%
25		4	0.3442	0.3355	0.3529	0.312	0.366	0.004242	0.02284	6.64%	10.41%
50		4	0.3737	0.3542	0.3931	0.31	0.4293	0.009503	0.05117	13.7%	2.73%
100		4	0.3457	0.3343	0.357	0.3187	0.376	0.005552	0.0299	8.65%	10.02%

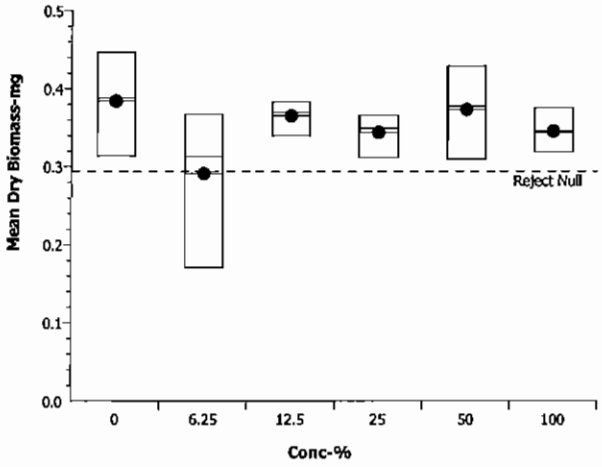
Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

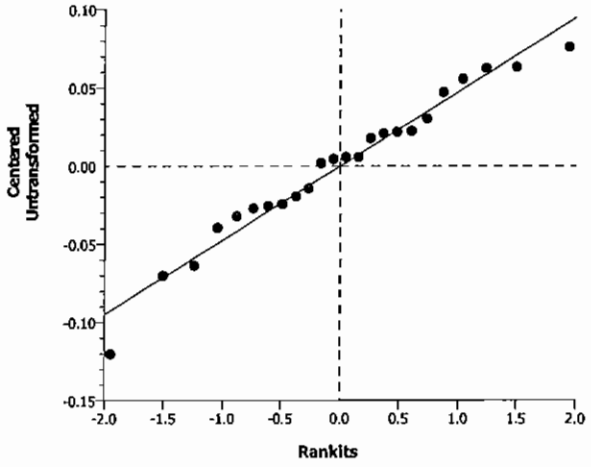
Analysis ID:	08-1071-6892	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 9:46	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.3547	0.1713	0.272	0.3673
12.5		0.34	0.3673	0.3713	0.3833
25		0.312	0.366	0.3487	0.35
50		0.396	0.3593	0.31	0.4293
100		0.376	0.3187	0.3667	0.3213

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	03-9130-7963	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 9:45	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	15-9982-7314	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:54	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	03-3140-8229	**Code:**	VCF1010053af	**Client:**	VCWPD
Sample Date:	06 Oct-10 07:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	32h (4.5 °C)	**Station:**	MO-FIL		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	16.43%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	14	10	2	0.3451	Non-Significant Effect
		12.5	18	10	2	0.8333	Non-Significant Effect
		25	17.5	10	1	0.7867	Non-Significant Effect
		50	16.5	10	2	0.6742	Non-Significant Effect
		100	20	10	1	0.9516	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.726	2.802	0.0702	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.1412167	0.02824334	5	1.181	0.3567	Non-Significant Effect
Error	0.4303426	0.02390792	18			
Total	0.5715594	0.05215127	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	0.9367	4.248	0.4809	Equal Variances
Distribution	Shapiro-Wilk Normality	0.8673		0.0047	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.25	0.2056	0.0004	Non-normal Distribution
Distribution	D'Agostino Skewness	2.307	2.576	0.0210	Normal Distribution
Distribution	D'Agostino Kurtosis	1.509	2.576	0.1313	Normal Distribution
Distribution	D'Agostino Omnibus	7.601	9.21	0.0224	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	03-9130-7963	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 9:45	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9413	0.992	0.8667	1	0.01238	0.06667	6.9%	0.0%
6.25		4	0.8333	0.7545	0.9122	0.5333	1	0.03849	0.2073	24.87%	13.79%
12.5		4	0.9667	0.9413	0.992	0.8667	1	0.01238	0.06667	6.9%	0.0%
25		4	0.95	0.912	0.988	0.8	1	0.01857	0.1	10.53%	1.72%
50		4	0.95	0.9257	0.9743	0.8667	1	0.01185	0.06383	6.72%	1.72%
100		4	1	1	1	1	1	0	0	0.0%	-3.45%

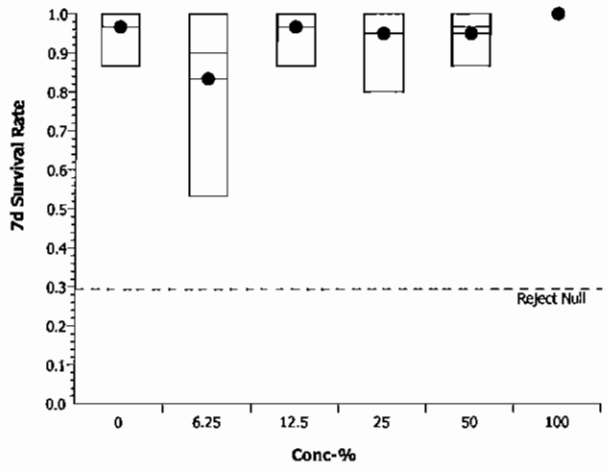
Angular (Corrected) Transformed Summary

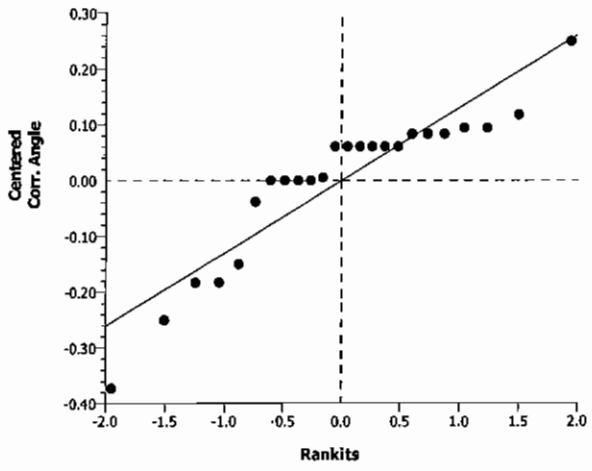
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.38	1.334	1.427	1.197	1.441	0.02269	0.1222	8.85%	0.0%
6.25		4	1.192	1.09	1.294	0.8188	1.441	0.04975	0.2679	22.48%	13.66%
12.5		4	1.38	1.334	1.427	1.197	1.441	0.02269	0.1222	8.85%	0.0%
25		4	1.358	1.294	1.421	1.107	1.441	0.03103	0.1671	12.31%	1.63%
50		4	1.347	1.302	1.392	1.197	1.441	0.02189	0.1179	8.75%	2.39%
100		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-4.43%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		0.9333	0.5333	0.8667	1
12.5		0.8667	1	1	1
25		0.8	1	1	1
50		0.8667	1	0.9333	1
100		1	1	1	1

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-6430-5516	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 9:46	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	15-9982-7314	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:54	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	03-3140-8229	**Code:**	VCF1010053af	**Client:**	VCWPD
Sample Date:	06 Oct-10 07:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	32h (4.5 °C)	**Station:**	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7747401	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.566	2.802	0.1371	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	2.994	0.5636	N/A	33.4	N/A	177.4
IC10	5.988	1.127	N/A	16.7	N/A	88.71
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.314	0.4467	0.01184	0.06484	16.88%	0.0%
6.25		4	0.2913	0.1713	0.3673	0.01652	0.09048	31.06%	24.16%
12.5		4	0.3655	0.34	0.3833	0.003343	0.01831	5.01%	4.86%
25		4	0.3442	0.312	0.366	0.004171	0.02284	6.64%	10.41%
50		4	0.3737	0.31	0.4293	0.009343	0.05117	13.7%	2.73%
100		4	0.3457	0.3187	0.376	0.005459	0.0299	8.65%	10.02%

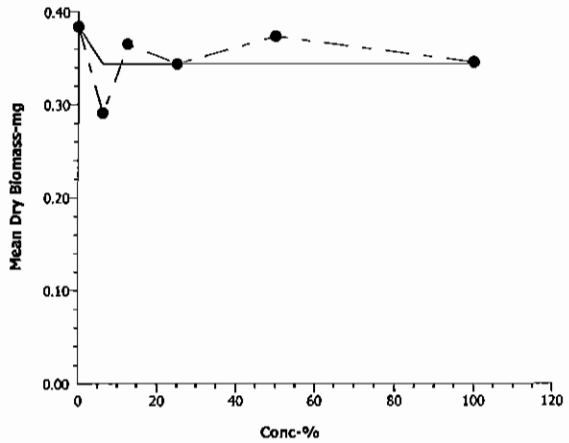
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.3547	0.1713	0.272	0.3673
12.5		0.34	0.3673	0.3713	0.3833
25		0.312	0.366	0.3487	0.35
50		0.396	0.3593	0.31	0.4293
100		0.376	0.3187	0.3667	0.3213

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	18-6430-5516	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 9:46	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	02-6505-9076	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 9:45	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	15-9982-7314	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:54	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	03-3140-8229	Code:	VCF1010053af	Client:	VCWPD
Sample Date:	06 Oct-10 07:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	32h (4.5 °C)	Station:	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7747401	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.726	2.802	0.0702	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9667	0.8667	1	0.01217	0.06667	6.9%	0.0%	58	60
6.25		4	0.8333	0.5333	1	0.03784	0.2073	24.87%	13.79%	50	60
12.5		4	0.9667	0.8667	1	0.01217	0.06667	6.9%	0.0%	58	60
25		4	0.95	0.8	1	0.01826	0.1	10.53%	1.72%	57	60
50		4	0.95	0.8667	1	0.01165	0.06383	6.72%	1.72%	57	60
100		4	1	1	1	0	0	0.0%	-3.45%	60	60

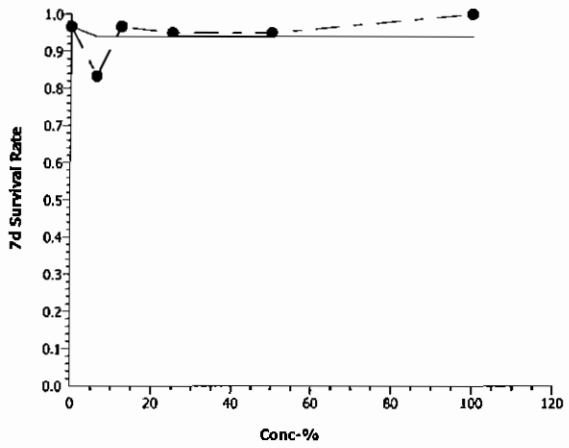
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		0.9333	0.5333	0.8667	1
12.5		0.8667	1	1	1
25		0.8	1	1	1
50		0.8667	1	0.9333	1
100		1	1	1	1

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	02-6505-9076	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 9:45	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	15-9982-7314	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:54	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	03-3140-8229	Code:	VCF1010053af	Client:	VCWPD
Sample Date:	06 Oct-10 07:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	32h (4.5 °C)	Station:	MO-FIL		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	37	37	37	37	37	0	0	0.0%	0
Overall		16	48.88			37	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	327.5	325.5	329.5	319	339	0.996	5.976	1.83%	0
12.5		8	323.1	321	325.3	312	332	1.063	6.379	1.97%	0
25		8	324.4	322.2	326.6	314	337	1.091	6.545	2.02%	0
50		8	328	326.6	329.4	320	334	0.7071	4.243	1.29%	0
100		8	333.1	331.7	334.6	330	342	0.7261	4.357	1.31%	0
Overall		48	329.1			312	361				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.313	7.045	7.58	6.1	8.4	0.132	0.7918	10.83%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.246			5.9	8.4				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	105	105	105	105	105	0	0	0.0%	0
Overall		16	95.13			83	105				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		37	37	37	37	37	37	37	37

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		328	328	328	329	328	339	319	321
12.5		323	324	325	328	325	332	316	312
25		322	325	325	327	325	337	320	314
50		325	330	330	330	329	334	326	320
100		330	337	333	330	330	330	342	333

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	8.4	7.8	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		105	105	105	105	105	105	105	105

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-FIL
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.053

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	20-2687-0727	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:54	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	06-6734-8361	**Code:**	VCF1010053ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 07:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	32h (4.5 °C)	**Station:**	MO-FIL		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
09-6937-7546	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
10-3121-3314	Reproduction	100	>100	N/A	21.09%	1	Steel Many-One Rank Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
19-5654-3198	7d Survival Rate	EC5	75	58.33	N/A	1.333	Linear Interpolation (ICPIN)
		EC10	100	66.67	N/A	1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
13-2314-6848	Reproduction	IC5	7.955	2.242	N/A	12.57	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
09-6937-7546	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
19-5654-3198	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
10-3121-3314	Reproduction	Control Resp	21	15 - NL	Yes	Result Within Limits
13-2314-6848	Reproduction	Control Resp	21	15 - NL	Yes	Result Within Limits
10-3121-3314	Reproduction	PMSD	0.2109	0.13 - 0.47	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	0.9	0.7819	1	0	1	0.05774	0.3162	35.14%	10.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21	19.79	22.21	15	27	0.59	3.232	15.39%	0.0%
6.25		10	20.1	18.75	21.45	14	26	0.658	3.604	17.93%	4.29%
12.5		10	18.5	17.47	19.53	16	24	0.5037	2.759	14.91%	11.9%
25		10	20.6	19.68	21.52	16	25	0.4489	2.459	11.93%	1.91%
50		10	18.5	17.84	19.16	16	21	0.3249	1.78	9.62%	11.9%
100		10	20.6	17.43	23.77	0	32	1.55	8.488	41.2%	1.91%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	0	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	23	18	19	27	21	22	15	23	21	21
6.25		24	18	20	20	18	18	19	26	14	24
12.5		24	16	20	22	16	16	17	17	19	18
25		21	23	20	22	21	25	19	16	20	19
50		21	18	20	16	21	18	18	19	18	16
100		20	19	21	21	32	21	30	20	0	22

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	10-3121-3314	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 11:19	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes
Batch ID:	20-2687-0727	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:54	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-6734-8361	Code:	VCF1010053ac	Client:	VCWPD
Sample Date:	06 Oct-10 07:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	32h (4.5 °C)	Station:	MO-FIL		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	21.09%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	95	75	2	0.5278	Non-Significant Effect
		12.5	82.5	75	3	0.1507	Non-Significant Effect
		25	99.5	75	4	0.6816	Non-Significant Effect
		50	77.5	75	3	0.0711	Non-Significant Effect
		100	103.5	75	3	0.7973	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	21	15 - NL	Yes	Result Within Limits
PMSD	0.2109	0.13 - 0.47	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	4.977	3.2	<0.0001	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	61.48333	12.29667	5	0.657	0.6575	Non-Significant Effect
Error	1010.7	18.71667	54			
Total	1072.183	31.01333	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	29.4	15.09	<0.0001	Unequal Variances
Variances	Mod Levene Equality of Variance	1.186	3.377	0.3281	Equal Variances
Distribution	Shapiro-Wilk Normality	0.8195		<0.0001	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.1896	0.1331	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	4.11	2.576	<0.0001	Non-normal Distribution
Distribution	D'Agostino Kurtosis	4.733	2.576	<0.0001	Non-normal Distribution
Distribution	D'Agostino Omnibus	39.29	9.21	<0.0001	Non-normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21	19.77	22.23	15	27	0.6001	3.232	15.39%	0.0%
6.25		10	20.1	18.73	21.47	14	26	0.6692	3.604	17.93%	4.29%
12.5		10	18.5	17.45	19.55	16	24	0.5123	2.759	14.91%	11.9%
25		10	20.6	19.66	21.54	16	25	0.4565	2.459	11.93%	1.91%
50		10	18.5	17.82	19.18	16	21	0.3304	1.78	9.62%	11.9%
100		10	20.6	17.37	23.83	0	32	1.576	8.488	41.2%	1.91%

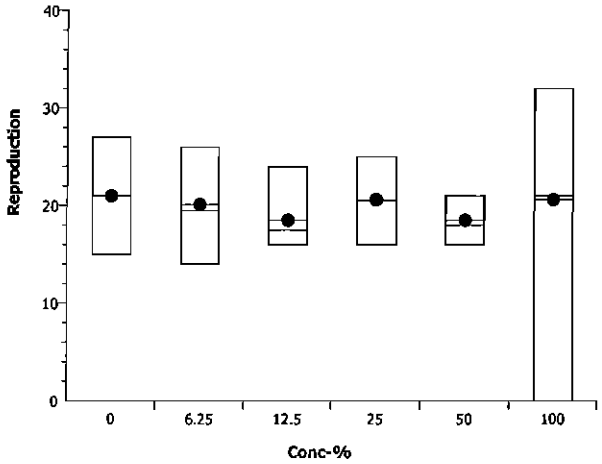
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

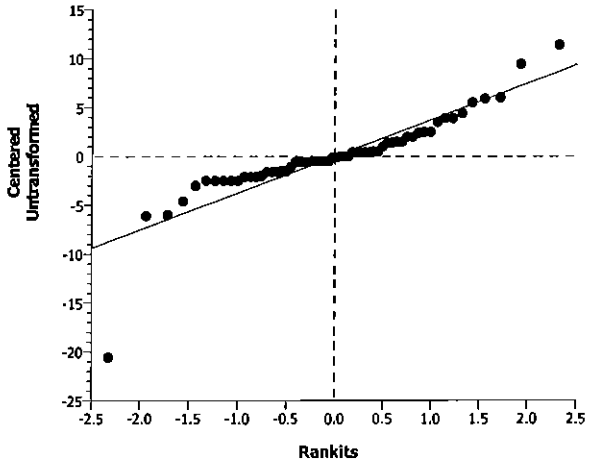
Analysis ID:	10-3121-3314	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 11:19	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	23	18	19	27	21	22	15	23	21	21
6.25		24	18	20	20	18	18	19	26	14	24
12.5		24	16	20	22	16	16	17	17	19	18
25		21	23	20	22	21	25	19	16	20	19
50		21	18	20	16	21	18	18	19	18	16
100		20	19	21	21	32	21	30	20	0	22

Graphics





CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	13-2314-6848	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:19	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	20-2687-0727	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:54	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	06-6734-8361	**Code:**	VCF1010053ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 07:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	32h (4.5 °C)	**Station:**	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7904800	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	21	15 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	7.955	2.242	N/A	12.57	N/A	44.6
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21	15	27	0.59	3.232	15.39%	0.0%
6.25		10	20.1	14	26	0.658	3.604	17.93%	4.29%
12.5		10	18.5	16	24	0.5037	2.759	14.91%	11.9%
25		10	20.6	16	25	0.4489	2.459	11.93%	1.91%
50		10	18.5	16	21	0.3249	1.78	9.62%	11.9%
100		10	20.6	0	32	1.55	8.488	41.2%	1.91%

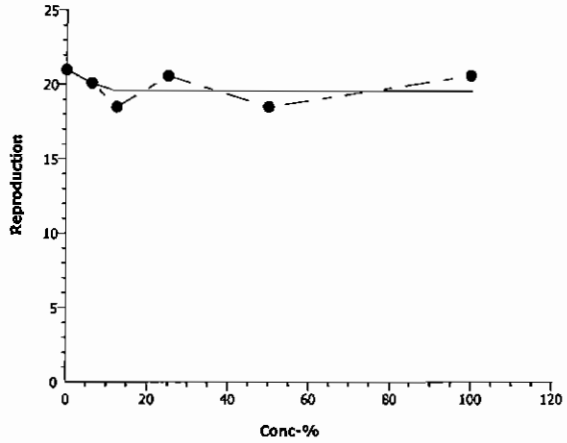
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	23	18	19	27	21	22	15	23	21	21
6.25		24	18	20	20	18	18	19	26	14	24
12.5		24	16	20	22	16	16	17	17	19	18
25		21	23	20	22	21	25	19	16	20	19
50		21	18	20	16	21	18	18	19	18	16
100		20	19	21	21	32	21	30	20	0	22

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-2314-6848	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:19	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	19-5654-3198	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 11:19	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	20-2687-0727	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:54	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-6734-8361	Code:	VCF1010053ac	Client:	VCWPD
Sample Date:	06 Oct-10 07:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	32h (4.5 °C)	Station:	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7904800	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	75	58.33	N/A	1.333	N/A	1.714
EC10	100	66.67	N/A	1	N/A	1.5
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	0.9	0	1	0.05774	0.3162	35.14%	10.0%	9	10

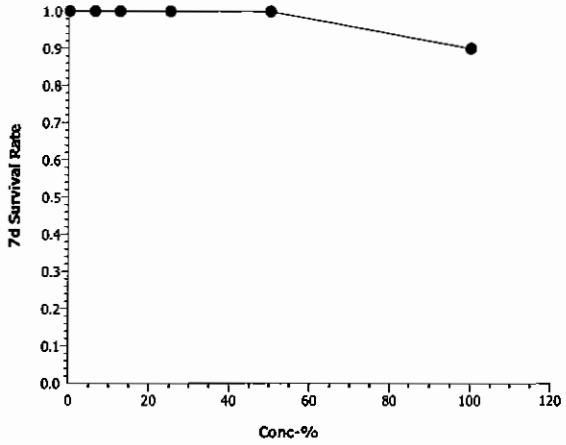
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	0	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	19-5654-3198	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:19	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	09-6937-7546	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:19	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	20-2687-0727	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:54	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	06-6734-8361	**Code:**	VCF1010053ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 07:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	32h (4.5 °C)	**Station:**	MO-FIL		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	0.5	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		9	1	10

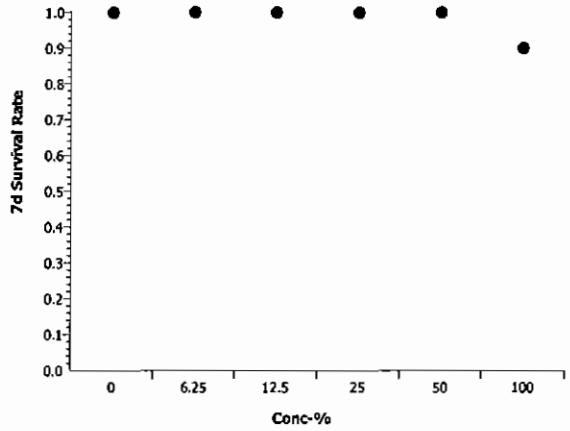
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	0	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	09-6937-7546	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:19	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	20-2687-0727	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:54	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	06-6734-8361	Code:	VCF1010053ac	Client:	VCWPD
Sample Date:	06 Oct-10 07:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	32h (4.5 °C)	Station:	MO-FIL		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	37	37	37	37	37	0	0	0.0%	0
Overall		16	48.88			37	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	327.5	325.5	329.5	319	339	0.996	5.976	1.83%	0
12.5		8	323.1	321	325.3	312	332	1.063	6.379	1.97%	0
25		8	324.4	322.2	326.6	314	337	1.091	6.545	2.02%	0
50		8	328	326.6	329.4	320	334	0.7071	4.243	1.29%	0
100		8	333.1	331.7	334.6	330	342	0.7261	4.357	1.31%	0
Overall		48	329.1			312	361				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.313	7.045	7.58	6.1	8.4	0.132	0.7918	10.83%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.246			5.9	8.4				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	105	105	105	105	105	0	0	0.0%	0
Overall		16	95.13			83	105				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		37	37	37	37	37	37	37	37

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		328	328	328	329	328	339	319	321
12.5		323	324	325	328	325	332	316	312
25		322	325	325	327	325	337	320	314
50		325	330	330	330	329	334	326	320
100		330	337	333	330	330	330	342	333

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	8.4	7.8	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		105	105	105	105	105	105	105	105

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-FIL
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.053

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Test Code: 07-4514-0567/VCF1010053sel

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	15-0423-5287	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:56	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	18-3995-7209	**Code:**	VCF1010053s	**Client:**	VCWPD
Sample Date:	06 Oct-10 07:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	30h (4.5 °C)	**Station:**	MO-FIL		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
01-1785-9229	Cell Density	100	>100	N/A	12.46%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
14-3037-4969	Cell Density	IC5	60.55	57.59	64	1.652	Linear Interpolation (ICPIN)
		IC10	71.1	65.72	77.99	1.406	
		IC15	81.65	73.58	91.99	1.225	
		IC20	92.2	81.44	N/A	1.085	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
01-1785-9229	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
14-3037-4969	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
01-1785-9229	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
14-3037-4969	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
01-1785-9229	Cell Density	PMSD	0.1246	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.117E+6	1.175E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.564E+6	1.527E+6	1.601E+6	1.467E+6	1.685E+6	1.818E+4	9.958E+4	6.37%	-36.5%
12.5		4	1.592E+6	1.562E+6	1.622E+6	1.509E+6	1.678E+6	1.483E+4	8.124E+4	5.1%	-38.95%
25		4	1.689E+6	1.668E+6	1.710E+6	1.616E+6	1.748E+6	1.011E+4	5.537E+4	3.28%	-47.41%
50		4	1.581E+6	1.540E+6	1.622E+6	1.468E+6	1.726E+6	2.013E+4	1.103E+5	6.98%	-37.99%
100		4	1.156E+6	1.131E+6	1.180E+6	1.067E+6	1.214E+6	1.212E+4	6.638E+4	5.74%	-0.85%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.500E+6	1.467E+6	1.604E+6	1.685E+6
12.5		1.678E+6	1.643E+6	1.538E+6	1.509E+6
25		1.616E+6	1.748E+6	1.708E+6	1.684E+6
50		1.598E+6	1.532E+6	1.468E+6	1.726E+6
100		1.214E+6	1.067E+6	1.198E+6	1.143E+6

CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	01-1785-9229	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 12:44	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	15-0423-5287	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:56	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	18-3995-7209	Code:	VCF1010053s	Client:	VCWPD
Sample Date:	06 Oct-10 07:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	30h (4.5 °C)	Station:	MO-FIL		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	12.46%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-7.052	2.407	142800	1.0000	Non-Significant Effect
		12.5	-7.524	2.407	142800	1.0000	Non-Significant Effect
		25	-9.16	2.407	142800	1.0000	Non-Significant Effect
		50	-7.339	2.407	142800	1.0000	Non-Significant Effect
		100	-0.1644	2.407	142800	0.8771	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1246	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.954	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	1.146466E+12	2.292932E+11	5	32.59	<0.0001	Significant Effect
Error	1.266317E+11	7035097000	18			
Total	1.273098E+12	2.363283E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.649	15.09	0.8953	Equal Variances
Variances	Mod Levene Equality of Variance	0.6791	4.248	0.6449	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9571		0.3822	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1205	0.2056	0.4908	Normal Distribution
Distribution	D'Agostino Skewness	0.1997	2.576	0.8417	Normal Distribution
Distribution	D'Agostino Kurtosis	1.286	2.576	0.1984	Normal Distribution
Distribution	D'Agostino Omnibus	1.694	9.21	0.4287	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.116E+6	1.175E+6	1.037E+6	1.222E+6	1.446E+4	7.786E+4	6.8%	0.0%
6.25		4	1.564E+6	1.526E+6	1.602E+6	1.467E+6	1.685E+6	1.849E+4	9.958E+4	6.37%	-36.5%
12.5		4	1.592E+6	1.561E+6	1.623E+6	1.509E+6	1.678E+6	1.509E+4	8.124E+4	5.1%	-38.95%
25		4	1.689E+6	1.668E+6	1.710E+6	1.616E+6	1.748E+6	1.028E+4	5.537E+4	3.28%	-47.41%
50		4	1.581E+6	1.539E+6	1.623E+6	1.468E+6	1.726E+6	2.048E+4	1.103E+5	6.98%	-37.99%
100		4	1.156E+6	1.130E+6	1.181E+6	1.067E+6	1.214E+6	1.233E+4	6.638E+4	5.74%	-0.85%

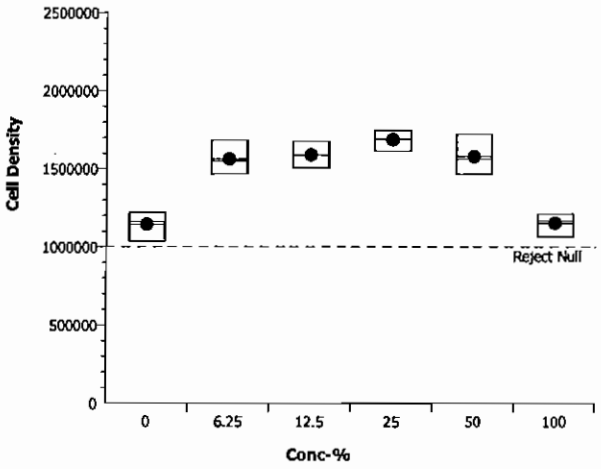
Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

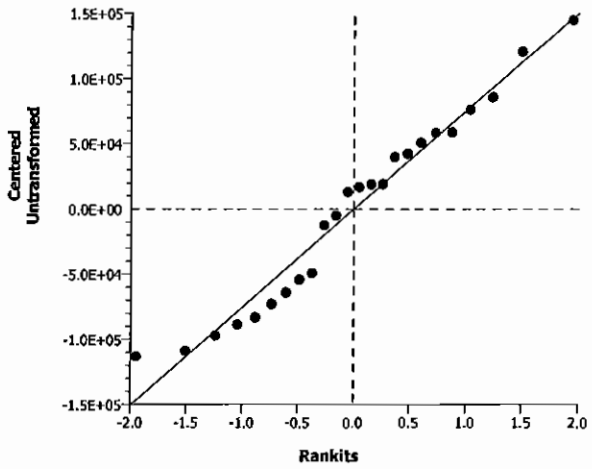
Analysis ID:	01-1785-9229	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:44	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.500E+6	1.467E+6	1.604E+6	1.685E+6
12.5		1.678E+6	1.643E+6	1.538E+6	1.509E+6
25		1.616E+6	1.748E+6	1.708E+6	1.684E+6
50		1.598E+6	1.532E+6	1.468E+6	1.726E+6
100		1.214E+6	1.067E+6	1.198E+6	1.143E+6

Graphics





CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	14-3037-4969	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 12:44	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	15-0423-5287	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:56	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	18-3995-7209	Code:	VCF1010053s	Client:	VCWPD
Sample Date:	06 Oct-10 07:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	30h (4.5 °C)	Station:	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5248684	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.954	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	60.55	57.59	64	1.652	1.563	1.736
IC10	71.1	65.72	77.99	1.406	1.282	1.522
IC15	81.65	73.58	91.99	1.225	1.087	1.359
IC20	92.2	81.44	N/A	1.085	N/A	1.228
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.564E+6	1.467E+6	1.685E+6	1.818E+4	9.958E+4	6.37%	-36.5%
12.5		4	1.592E+6	1.509E+6	1.678E+6	1.483E+4	8.124E+4	5.1%	-38.95%
25		4	1.689E+6	1.616E+6	1.748E+6	1.011E+4	5.537E+4	3.28%	-47.41%
50		4	1.581E+6	1.468E+6	1.726E+6	2.013E+4	1.103E+5	6.98%	-37.99%
100		4	1.156E+6	1.067E+6	1.214E+6	1.212E+4	6.638E+4	5.74%	-0.85%

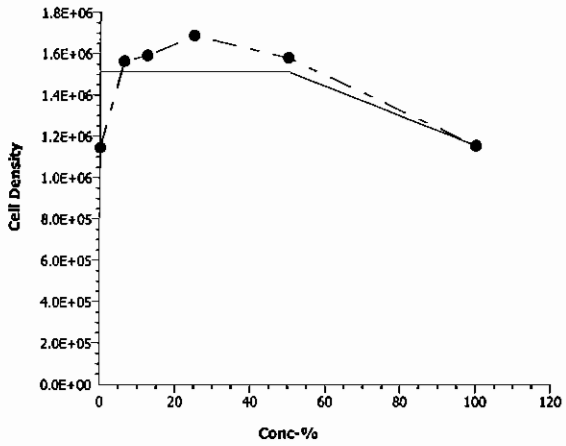
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.500E+6	1.467E+6	1.604E+6	1.685E+6
12.5		1.678E+6	1.643E+6	1.538E+6	1.509E+6
25		1.616E+6	1.748E+6	1.708E+6	1.684E+6
50		1.598E+6	1.532E+6	1.468E+6	1.726E+6
100		1.214E+6	1.067E+6	1.198E+6	1.143E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-3037-4969	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:44	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Measurement Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	15-0423-5287	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:56	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	18-3995-7209	**Code:**	VCF1010053s	**Client:**	VCWPD
Sample Date:	06 Oct-10 07:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	30h (4.5 °C)	**Station:**	MO-FIL		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	78			78	78	0	0	0.0%	0
12.5		1	70			70	70	0	0	0.0%	0
25		1	67			67	67	0	0	0.0%	0
50		1	64			64	64	0	0	0.0%	0
100		1	37			37	37	0	0	0.0%	0
Overall		6	64.17			37	78				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	399.8	397.2	402.4	393	413	1.288	7.727	1.93%	0
12.5		5	391	389.3	392.7	382	395	0.858	5.148	1.32%	0
25		5	391.6	389.8	393.4	382	395	0.9022	5.413	1.38%	0
50		5	396.8	395.9	397.7	392	399	0.4625	2.775	0.7%	0
100		5	410.6	409.2	412	405	415	0.6932	4.159	1.01%	0
Overall		30	404.4			382	449				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	111			111	111	0	0	0.0%	0
12.5		1	115			115	115	0	0	0.0%	0
25		1	115			115	115	0	0	0.0%	0
50		1	130			130	130	0	0	0.0%	0
100		1	105			105	105	0	0	0.0%	0
Overall		6	115.2			105	130				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		78
12.5		70
25		67
50		64
100		37

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		396	398	399	393	413
12.5		392	393	395	393	382
25		382	394	393	395	394
50		397	398	392	399	398
100		411	414	408	405	415

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		111
12.5		115
25		115
50		130
100		105

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SPA
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.054

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	13-7359-1488	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:55	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-3115-1643	Code:	VCF1010054af	Client:	VCWPD
Sample Date:	06 Oct-10 08:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	31h (4.5 °C)	Station:	MO-SPA		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
03-4555-5755	7d Survival Rate	100	>100	N/A	15.7%	1	Dunnett's Multiple Comparison Test
05-8809-6271	Mean Dry Biomass-mg	100	>100	N/A	27.11%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
18-9897-2510	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
00-4744-0347	Mean Dry Biomass-mg	IC5	2.219	0.5554	N/A	45.06	Linear Interpolation (ICPIN)
		IC10	4.438	1.111	N/A	22.53	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
03-4555-5755	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
18-9897-2510	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
00-4744-0347	Mean Dry Biomass-mg	Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
05-8809-6271	Mean Dry Biomass-mg	Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
05-8809-6271	Mean Dry Biomass-mg	PMSD	0.2711	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9418	0.9916	0.8667	1	0.01217	0.06667	6.9%	0.0%
6.25		4	0.8667	0.7963	0.9371	0.6	1	0.03443	0.1886	21.76%	10.34%
12.5		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	0.0%
25		4	0.9167	0.8695	0.9638	0.7333	1	0.02304	0.1262	13.77%	5.17%
50		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	0.0%
100		4	1	1	1	1	1	0	0	0.0%	-3.45%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.36	0.4084	0.314	0.4467	0.01184	0.06484	16.88%	0.0%
6.25		4	0.2902	0.2635	0.3168	0.2293	0.3907	0.01304	0.07144	24.62%	24.47%
12.5		4	0.3215	0.3031	0.3399	0.278	0.3753	0.009002	0.04931	15.34%	16.31%
25		4	0.3265	0.2924	0.3606	0.1967	0.4107	0.01669	0.09142	28.0%	15.01%
50		4	0.3487	0.3346	0.3628	0.3153	0.4027	0.006886	0.03772	10.82%	9.24%
100		4	0.3635	0.352	0.375	0.3413	0.4073	0.005625	0.03081	8.48%	5.38%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		1	0.6	1	0.8667
12.5		0.9333	1	1	0.9333
25		0.7333	1	1	0.9333
50		0.9333	0.9333	1	1
100		1	1	1	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.3907	0.2293	0.2513	0.2893
12.5		0.2813	0.278	0.3753	0.3513
25		0.1967	0.356	0.4107	0.3427
50		0.342	0.3347	0.4027	0.3153
100		0.4073	0.3413	0.3427	0.3627

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	05-8809-6271	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:03	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	13-7359-1488	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:55	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-3115-1643	**Code:**	VCF1010054af	**Client:**	VCWPD
Sample Date:	06 Oct-10 08:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	31h (4.5 °C)	**Station:**	MO-SPA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	27.11%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	2.172	2.407	0.1042	0.0771	Non-Significant Effect
		12.5	1.448	2.407	0.1042	0.2450	Non-Significant Effect
		25	1.333	2.407	0.1042	0.2858	Non-Significant Effect
		50	0.8204	2.407	0.1042	0.5029	Non-Significant Effect
		100	0.4776	2.407	0.1042	0.6572	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits
PMSD	0.2711	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.398	2.802	0.2579	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.0223235	0.0044647	5	1.192	0.3519	Non-Significant Effect
Error	0.06740522	0.003744734	18			
Total	0.08972871	0.008209434	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	4.101	15.09	0.5350	Equal Variances
Variances	Mod Levene Equality of Variance	0.6609	4.248	0.6576	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9785		0.8676	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.08947	0.2056	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.4504	2.576	0.6524	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2865	2.576	0.7745	Normal Distribution
Distribution	D'Agostino Omnibus	0.2849	9.21	0.8672	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.3595	0.4088	0.314	0.4467	0.01204	0.06484	16.88%	0.0%
6.25		4	0.2902	0.263	0.3173	0.2293	0.3907	0.01327	0.07144	24.62%	24.47%
12.5		4	0.3215	0.3027	0.3403	0.278	0.3753	0.009156	0.04931	15.34%	16.31%
25		4	0.3265	0.2917	0.3613	0.1967	0.4107	0.01698	0.09142	28.0%	15.01%
50		4	0.3487	0.3343	0.363	0.3153	0.4027	0.007004	0.03772	10.82%	9.24%
100		4	0.3635	0.3518	0.3752	0.3413	0.4073	0.005721	0.03081	8.48%	5.38%

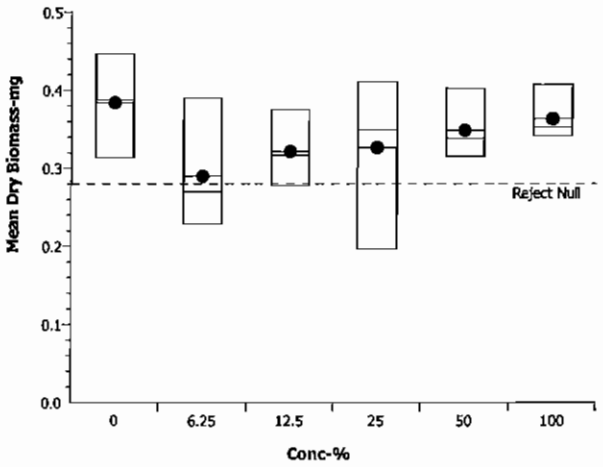
Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

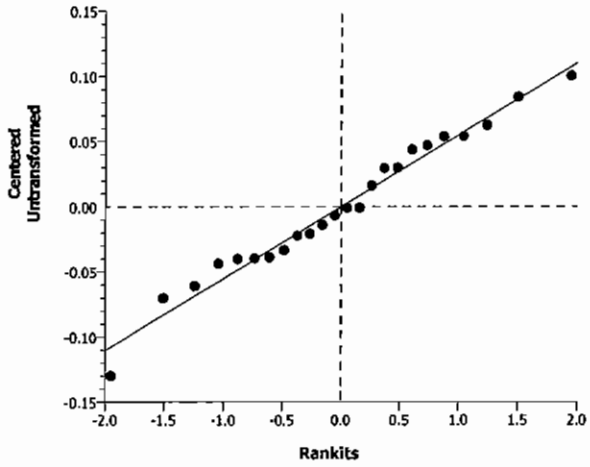
Analysis ID:	05-8809-6271	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:03	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.3907	0.2293	0.2513	0.2893
12.5		0.2813	0.278	0.3753	0.3513
25		0.1967	0.356	0.4107	0.3427
50		0.342	0.3347	0.4027	0.3153
100		0.4073	0.3413	0.3427	0.3627

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	03-4555-5755	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:02	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	13-7359-1488	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:55	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-3115-1643	Code:	VCF1010054af	Client:	VCWPD
Sample Date:	06 Oct-10 08:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	31h (4.5 °C)	Station:	MO-SPA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	15.7%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	1.314	2.407	0.2542	0.2925	Non-Significant Effect
		12.5	0.04513	2.407	0.2542	0.8197	Non-Significant Effect
		25	0.7115	2.407	0.2542	0.5527	Non-Significant Effect
		50	0.04513	2.407	0.2542	0.8197	Non-Significant Effect
		100	-0.5784	2.407	0.2542	0.9497	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.69	2.802	0.0824	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.09718353	0.01943671	5	0.8714	0.5194	Non-Significant Effect
Error	0.4014733	0.02230407	18			
Total	0.4986568	0.04174078	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	1.98	4.248	0.1306	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9074		0.0310	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1841	0.2056	0.0346	Normal Distribution
Distribution	D'Agostino Skewness	2.143	2.576	0.0321	Normal Distribution
Distribution	D'Agostino Kurtosis	1.564	2.576	0.1179	Normal Distribution
Distribution	D'Agostino Omnibus	7.036	9.21	0.0297	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 03-4555-5755 Endpoint: 7d Survival Rate CETIS Version: CETISv1.7.0
Analyzed: 01 Dec-10 10:02 Analysis: Parametric-Control vs Treatments Official Results: Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9413	0.992	0.8667	1	0.01238	0.06667	6.9%	0.0%
6.25		4	0.8667	0.7949	0.9384	0.6	1	0.03502	0.1886	21.76%	10.34%
12.5		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	0.0%
25		4	0.9167	0.8687	0.9647	0.7333	1	0.02343	0.1262	13.77%	5.17%
50		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	0.0%
100		4	1	1	1	1	1	0	0	0.0%	-3.45%

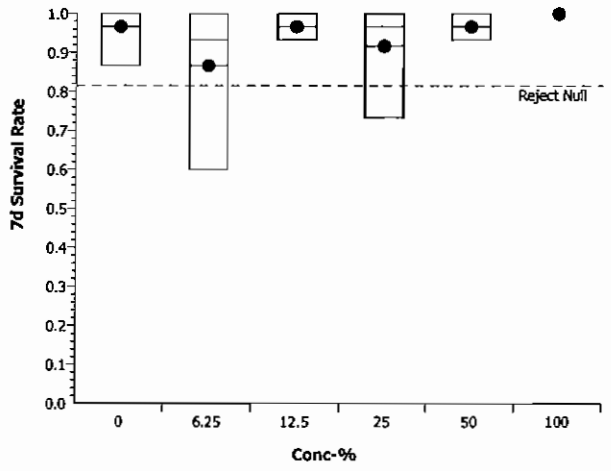
Angular (Corrected) Transformed Summary

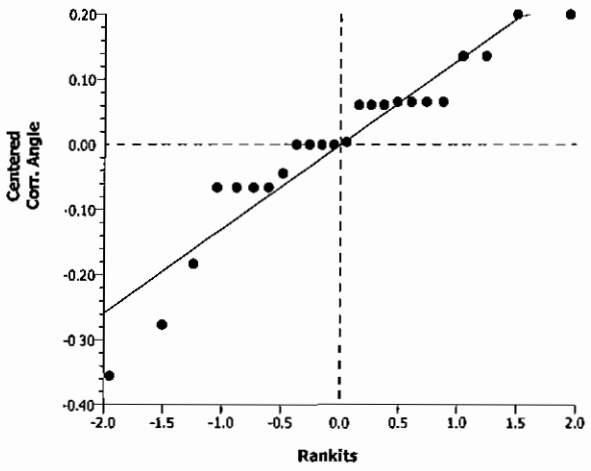
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.38	1.334	1.427	1.197	1.441	0.02269	0.1222	8.85%	0.0%
6.25		4	1.241	1.141	1.342	0.8861	1.441	0.04892	0.2634	21.22%	10.06%
12.5		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	0.35%
25		4	1.305	1.231	1.379	1.028	1.441	0.03617	0.1948	14.93%	5.44%
50		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	0.35%
100		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-4.43%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		1	0.6	1	0.8667
12.5		0.9333	1	1	0.9333
25		0.7333	1	1	0.9333
50		0.9333	0.9333	1	1
100		1	1	1	1

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-4744-0347	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:02	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	13-7359-1488	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:55	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-3115-1643	Code:	VCF1010054af	Client:	VCWPD
Sample Date:	06 Oct-10 08:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	31h (4.5 °C)	Station:	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	140176	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3842	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.398	2.802	0.2579	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	2.219	0.5554	N/A	45.06	N/A	180.1
IC10	4.438	1.111	N/A	22.53	N/A	90.03
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3842	0.314	0.4467	0.01184	0.06484	16.88%	0.0%
6.25		4	0.2902	0.2293	0.3907	0.01304	0.07144	24.62%	24.47%
12.5		4	0.3215	0.278	0.3753	0.009002	0.04931	15.34%	16.31%
25		4	0.3265	0.1967	0.4107	0.01669	0.09142	28.0%	15.01%
50		4	0.3487	0.3153	0.4027	0.006886	0.03772	10.82%	9.24%
100		4	0.3635	0.3413	0.4073	0.005625	0.03081	8.48%	5.38%

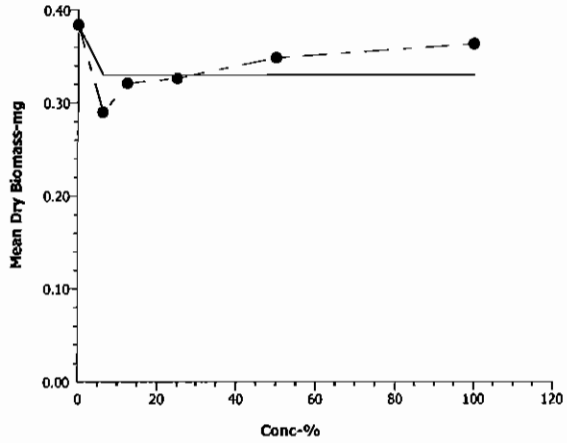
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4467	0.3447	0.4313	0.314
6.25		0.3907	0.2293	0.2513	0.2893
12.5		0.2813	0.278	0.3753	0.3513
25		0.1967	0.356	0.4107	0.3427
50		0.342	0.3347	0.4027	0.3153
100		0.4073	0.3413	0.3427	0.3627

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-4744-0347	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:02	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-9897-2510	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 10:02	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	13-7359-1488	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:55	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-3115-1643	Code:	VCF1010054af	Client:	VCWPD
Sample Date:	06 Oct-10 08:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	31h (4.5 °C)	Station:	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	140176	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.69	2.802	0.0824	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9667	0.8667	1	0.01217	0.06667	6.9%	0.0%	58	60
6.25		4	0.8667	0.6	1	0.03443	0.1886	21.76%	10.34%	52	60
12.5		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	0.0%	58	60
25		4	0.9167	0.7333	1	0.02304	0.1262	13.77%	5.17%	55	60
50		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	0.0%	58	60
100		4	1	1	1	0	0	0.0%	-3.45%	60	60

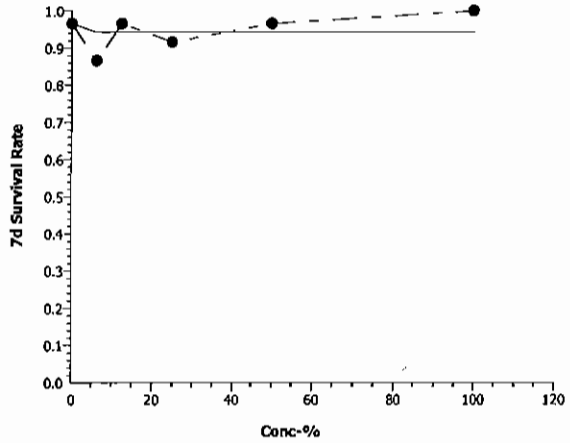
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.8667
6.25		1	0.6	1	0.8667
12.5		0.9333	1	1	0.9333
25		0.7333	1	1	0.9333
50		0.9333	0.9333	1	1
100		1	1	1	1

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-9897-2510	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 10:02	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	13-7359-1488	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:55	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-3115-1643	**Code:**	VCF1010054af	**Client:**	VCWPD
Sample Date:	06 Oct-10 08:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	31h (4.5 °C)	**Station:**	MO-SPA		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	23	23	23	23	23	0	0	0.0%	0
Overall		16	41.88			23	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	315.6	313.8	317.5	303	321	0.9126	5.476	1.74%	0
12.5		8	308.1	305.1	311.2	292	325	1.502	9.015	2.93%	0
25		8	280.9	273.6	288.1	231	299	3.567	21.4	7.62%	0
50		8	235.8	234.7	236.8	231	239	0.5401	3.24	1.37%	0
100		8	127.1	122.4	131.8	112	148	2.312	13.87	10.91%	0
Overall		48	267.7			112	361				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.313	7.045	7.58	6.1	8.4	0.132	0.7918	10.83%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.246			5.9	8.4				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	49	49	49	49	49	0	0	0.0%	0
Overall		16	67.13			49	90				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		23	23	23	23	23	23	23	23

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		314	317	317	317	317	321	319	303
12.5		325	306	310	310	310	306	292	306
25		280	282	290	295	299	291	279	231
50		231	236	235	238	239	239	237	231
100		139	112	117	118	119	121	148	143

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	8.4	7.8	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		49	49	49	49	49	49	49	49

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SPA
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.054

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	01-6892-8416	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:55	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	15-0615-1435	**Code:**	VCF1010054ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 08:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	31h (4.5 °C)	**Station:**	MO-SPA		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
18-7906-2443	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
00-7666-6504	Reproduction	100	>100	N/A	13.24%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
13-0146-4469	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
18-1237-2450	Reproduction	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
13-0146-4469	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
18-7906-2443	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
00-7666-6504	Reproduction	Control Resp	21.7	15 - NL	Yes	Result Within Limits
18-1237-2450	Reproduction	Control Resp	21.7	15 - NL	Yes	Result Within Limits
00-7666-6504	Reproduction	PMSD	0.1324	0.13 - 0.47	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21.7	20.26	23.14	15	26	0.7047	3.86	17.79%	0.0%
6.25		10	21.4	20.22	22.58	17	26	0.5786	3.169	14.81%	1.38%
12.5		10	22.6	21.91	23.29	20	26	0.3355	1.838	8.13%	-4.15%
25		10	23.8	22.98	24.62	21	28	0.4018	2.201	9.25%	-9.68%
50		10	23.1	22.45	23.75	20	26	0.3156	1.729	7.48%	-6.45%
100		10	22.7	21.45	23.95	14	25	0.6089	3.335	14.69%	-4.61%

Ceriodaphnia 7-d Survival and Reproduction Test **Aquatic Bioassay & Consulting Labs, Inc.**

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	15	25	23	26	25	24	23	16	19	21
6.25		26	22	24	25	17	17	19	23	21	20
12.5		24	24	22	21	21	26	24	22	22	20
25		24	24	21	21	24	25	26	23	28	22
50		20	26	24	23	24	23	24	22	24	21
100		25	24	23	21	24	24	25	25	14	22

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-7666-6504	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:34	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	01-6892-8416	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:55	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	15-0615-1435	**Code:**	VCF1010054ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 08:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	31h (4.5 °C)	**Station:**	MO-SPA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	13.24%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	0.239	2.289	2.874	0.7528	Non-Significant Effect
		12.5	-0.7169	2.289	2.874	0.9655	Non-Significant Effect
		25	-1.673	2.289	2.874	0.9983	Non-Significant Effect
		50	-1.115	2.289	2.874	0.9889	Non-Significant Effect
		100	-0.7966	2.289	2.874	0.9721	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	21.7	15 - NL	Yes	Result Within Limits
PMSD	0.1324	0.13 - 0.47	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.24	3.2	0.0423	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	39.35	7.87	5	0.9988	0.4274	Non-Significant Effect
Error	425.5	7.87963	54			
Total	464.85	15.74963	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	9.304	15.09	0.0975	Equal Variances
Variances	Mod Levene Equality of Variance	1.092	3.377	0.3754	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9565		0.0317	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.0979	0.1331	0.1550	Normal Distribution
Distribution	D'Agostino Skewness	2.602	2.576	0.0093	Non-normal Distribution
Distribution	D'Agostino Kurtosis	1.639	2.576	0.1012	Normal Distribution
Distribution	D'Agostino Omnibus	9.456	9.21	0.0088	Non-normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21.7	20.23	23.17	15	26	0.7168	3.86	17.79%	0.0%
6.25		10	21.4	20.19	22.61	17	26	0.5885	3.169	14.81%	1.38%
12.5		10	22.6	21.9	23.3	20	26	0.3413	1.838	8.13%	-4.15%
25		10	23.8	22.96	24.64	21	28	0.4087	2.201	9.25%	-9.68%
50		10	23.1	22.44	23.76	20	26	0.321	1.729	7.48%	-6.45%
100		10	22.7	21.43	23.97	14	25	0.6193	3.335	14.69%	-4.61%

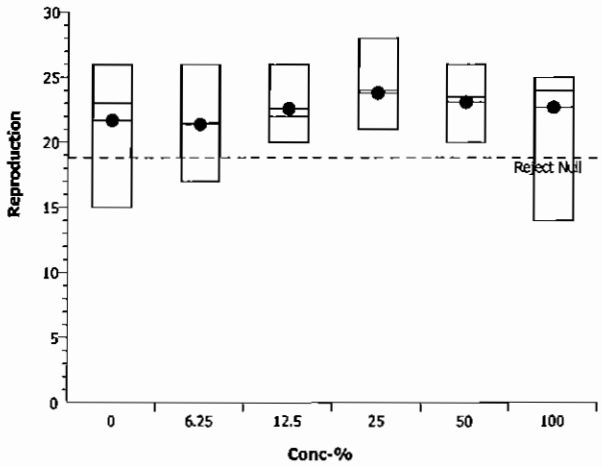
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

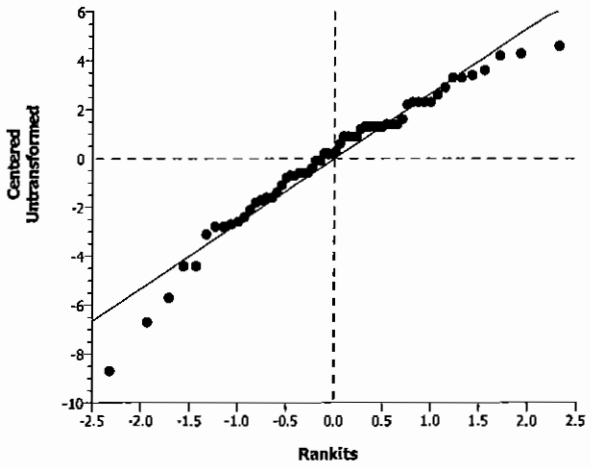
Analysis ID:	00-7666-6504	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:34	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	15	25	23	26	25	24	23	16	19	21
6.25		26	22	24	25	17	17	19	23	21	20
12.5		24	24	22	21	21	26	24	22	22	20
25		24	24	21	21	24	25	26	23	28	22
50		20	26	24	23	24	23	24	22	24	21
100		25	24	23	21	24	24	25	25	14	22

Graphics





CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-1237-2450	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 11:33	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	01-6892-8416	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:55	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	15-0615-1435	Code:	VCF1010054ac	Client:	VCWPD
Sample Date:	06 Oct-10 08:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	31h (4.5 °C)	Station:	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3735362	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	21.7	15 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21.7	15	26	0.7047	3.86	17.79%	0.0%
6.25		10	21.4	17	26	0.5786	3.169	14.81%	1.38%
12.5		10	22.6	20	26	0.3355	1.838	8.13%	-4.15%
25		10	23.8	21	28	0.4018	2.201	9.25%	-9.68%
50		10	23.1	20	26	0.3156	1.729	7.48%	-6.45%
100		10	22.7	14	25	0.6089	3.335	14.69%	-4.61%

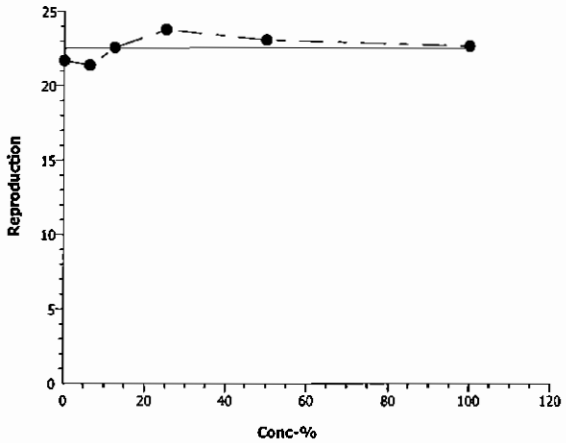
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	15	25	23	26	25	24	23	16	19	21
6.25		26	22	24	25	17	17	19	23	21	20
12.5		24	24	22	21	21	26	24	22	22	20
25		24	24	21	21	24	25	26	23	28	22
50		20	26	24	23	24	23	24	22	24	21
100		25	24	23	21	24	24	25	25	14	22

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	18-1237-2450	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:33	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-0146-4469	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:33	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	01-6892-8416	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:55	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	15-0615-1435	**Code:**	VCF1010054ac	**Client:**	VCWPD
Sample Date:	06 Oct-10 08:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	31h (4.5 °C)	**Station:**	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3735362	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

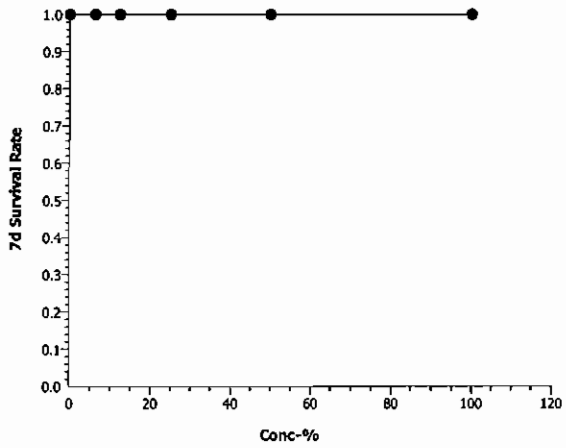
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-0146-4469	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:33	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-7906-2443	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 11:33	Analysis:	STP 2x2 Contingency Tables	Official Results:	Yes
Batch ID:	01-6892-8416	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:55	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	15-0615-1435	Code:	VCF1010054ac	Client:	VCWPD
Sample Date:	06 Oct-10 08:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	31h (4.5 °C)	Station:	MO-SPA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

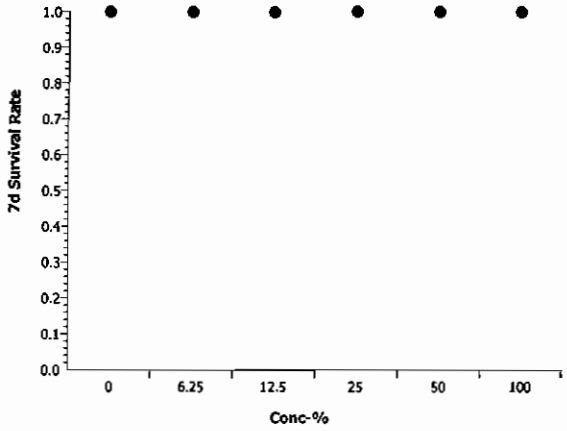
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	18-7906-2443	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 11:33	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	01-6892-8416	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:55	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	15-0615-1435	Code:	VCF1010054ac	Client:	VCWPD
Sample Date:	06 Oct-10 08:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	31h (4.5 °C)	Station:	MO-SPA		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.75	60.59	60.91	60	61	0.07715	0.4629	0.76%	0
100		8	23	23	23	23	23	0	0	0.0%	0
Overall		16	41.88			23	61				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
6.25		8	315.6	313.8	317.5	303	321	0.9126	5.476	1.74%	0
12.5		8	308.1	305.1	311.2	292	325	1.502	9.015	2.93%	0
25		8	280.9	273.6	288.1	231	299	3.567	21.4	7.62%	0
50		8	235.8	234.7	236.8	231	239	0.5401	3.24	1.37%	0
100		8	127.1	122.4	131.8	112	148	2.312	13.87	10.91%	0
Overall		48	267.7			112	361				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
6.25		8	7.313	7.045	7.58	6.1	8.4	0.132	0.7918	10.83%	0
12.5		8	7.263	6.977	7.548	6	8.3	0.1408	0.845	11.64%	0
25		8	6.913	6.62	7.205	6	8.3	0.1443	0.8659	12.53%	0
50		8	7.2	6.898	7.502	5.9	8.3	0.1485	0.8912	12.38%	0
100		8	7.175	6.868	7.482	5.9	8.2	0.1511	0.9067	12.64%	0
Overall		48	7.246			5.9	8.4				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	85.25	84.22	86.28	83	90	0.5098	3.059	3.59%	0
100		8	49	49	49	49	49	0	0	0.0%	0
Overall		16	67.13			49	90				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.925	7.886	7.964	7.7	8.1	0.01942	0.1165	1.47%	0
6.25		8	7.713	7.611	7.814	7	7.9	0.04995	0.2997	3.89%	0
12.5		8	7.788	7.759	7.816	7.7	7.9	0.01391	0.08345	1.07%	0
25		8	7.788	7.754	7.821	7.6	7.9	0.01652	0.0991	1.27%	0
50		8	7.788	7.749	7.826	7.6	7.9	0.01877	0.1126	1.45%	0
100		8	7.775	7.736	7.814	7.6	7.9	0.01942	0.1165	1.5%	0
Overall		48	7.796			7	8.1				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
6.25		8	24.09	24.05	24.12	24	24.2	0.01651	0.09904	0.41%	0
12.5		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
25		8	24.18	24.15	24.2	24	24.2	0.01176	0.07055	0.29%	0
50		8	24.23	24.2	24.25	24.1	24.4	0.01476	0.08856	0.37%	0
100		8	24.16	24.15	24.18	24.1	24.2	0.008586	0.05151	0.21%	0
Overall		48	24.14			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	60	60	61	61	61	61	61	61
100		23	23	23	23	23	23	23	23

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
6.25		314	317	317	317	317	321	319	303
12.5		325	306	310	310	310	306	292	306
25		280	282	290	295	299	291	279	231
50		231	236	235	238	239	239	237	231
100		139	112	117	118	119	121	148	143

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
6.25		6.6	8.4	7.8	7.8	7.8	6.6	7.4	6.1
12.5		6.8	8.3	7.9	7.8	7.8	6.2	7.3	6
25		6.8	8.3	7.9	6.8	6.2	7.3	6	6
50		6.8	8.3	8	7.8	7.7	6.1	7	5.9
100		6.8	8.2	8.1	7.9	7.7	6.2	6.6	5.9

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	83	83	83	83	85	85
100		49	49	49	49	49	49	49	49

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	8	8.1	7.7
6.25		7.7	7.7	7	7.8	7.9	7.9	7.8	7.9
12.5		7.7	7.7	7.7	7.8	7.9	7.8	7.9	7.8
25		7.6	7.7	7.8	7.8	7.8	7.9	7.8	7.9
50		7.6	7.8	7.7	7.9	7.9	7.8	7.9	7.7
100		7.6	7.7	7.7	7.9	7.9	7.8	7.9	7.7

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.2	24	24	24	24	24.1	24.5
6.25		24.2	24.2	24	24.2	24.1	24	24	24
12.5		24.2	24	24	24.1	24	24	24	24
25		24.2	24.2	24	24.2	24.2	24.2	24.2	24.2
50		24.2	24.2	24.1	24.2	24.2	24.3	24.4	24.2
100		24.2	24.2	24.1	24.2	24.2	24.1	24.1	24.2

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SPA
DATE RECEIVED:	10/6/2010
ABC LAB. NO.:	VCF1010.054

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	14-1959-5907	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:57	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	01-0160-8185	**Code:**	VCF1010054s	**Client:**	VCWPD
Sample Date:	06 Oct-10 08:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	29h (4.5 °C)	**Station:**	MO-SPA		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
20-5123-8233	Cell Density	100	>100	N/A	10.87%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
12-4419-3161	Cell Density	IC5	86.06	67.47	N/A	1.162	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
12-4419-3161	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
20-5123-8233	Cell Density	Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
12-4419-3161	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
20-5123-8233	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
20-5123-8233	Cell Density	PMSD	0.1087	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.117E+6	1.175E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.609E+6	1.579E+6	1.640E+6	1.537E+6	1.685E+6	1.494E+4	8.181E+4	5.08%	-40.45%
12.5		4	1.664E+6	1.632E+6	1.695E+6	1.557E+6	1.752E+6	1.564E+4	8.564E+4	5.15%	-45.19%
25		4	1.726E+6	1.693E+6	1.758E+6	1.656E+6	1.852E+6	1.582E+4	8.663E+4	5.02%	-50.62%
50		4	1.584E+6	1.575E+6	1.593E+6	1.560E+6	1.616E+6	4.512E+3	2.471E+4	1.56%	-38.25%
100		4	1.439E+6	1.415E+6	1.462E+6	1.377E+6	1.523E+6	1.147E+4	6.281E+4	4.37%	-25.55%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.540E+6	1.675E+6	1.685E+6	1.537E+6
12.5		1.636E+6	1.709E+6	1.557E+6	1.752E+6
25		1.852E+6	1.656E+6	1.705E+6	1.690E+6
50		1.560E+6	1.616E+6	1.570E+6	1.590E+6
100		1.445E+6	1.523E+6	1.377E+6	1.409E+6

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	20-5123-8233	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 12:52	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	14-1959-5907	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:57	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	01-0160-8185	Code:	VCF1010054s	Client:	VCWPD
Sample Date:	06 Oct-10 08:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	29h (4.5 °C)	Station:	MO-SPA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	10.87%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-8.955	2.407	124600	1.0000	Non-Significant Effect
		12.5	-10	2.407	124600	1.0000	Non-Significant Effect
		25	-11.21	2.407	124600	1.0000	Non-Significant Effect
		50	-8.467	2.407	124600	1.0000	Non-Significant Effect
		100	-5.656	2.407	124600	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1087	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.95	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	8.853117E+11	1.770623E+11	5	33.05	<0.0001	Significant Effect
Error	96444250000	5358014000	18			
Total	9.81756E+11	1.824204E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.934	15.09	0.5590	Equal Variances
Variances	Mod Levene Equality of Variance	0.7323	4.248	0.6086	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9696		0.6578	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.09503	0.2056	0.9269	Normal Distribution
Distribution	D'Agostino Skewness	0.2807	2.576	0.7789	Normal Distribution
Distribution	D'Agostino Kurtosis	1.015	2.576	0.3102	Normal Distribution
Distribution	D'Agostino Omnibus	1.109	9.21	0.5745	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.116E+6	1.175E+6	1.037E+6	1.222E+6	1.446E+4	7.786E+4	6.8%	0.0%
6.25		4	1.609E+6	1.578E+6	1.640E+6	1.537E+6	1.685E+6	1.519E+4	8.181E+4	5.08%	-40.45%
12.5		4	1.664E+6	1.631E+6	1.696E+6	1.557E+6	1.752E+6	1.590E+4	8.564E+4	5.15%	-45.19%
25		4	1.726E+6	1.693E+6	1.759E+6	1.656E+6	1.852E+6	1.609E+4	8.663E+4	5.02%	-50.62%
50		4	1.584E+6	1.575E+6	1.593E+6	1.560E+6	1.616E+6	4.589E+3	2.471E+4	1.56%	-38.25%
100		4	1.439E+6	1.415E+6	1.462E+6	1.377E+6	1.523E+6	1.166E+4	6.281E+4	4.37%	-25.55%

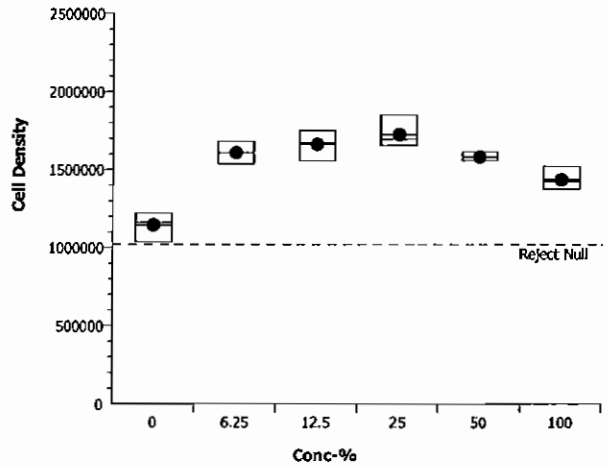
Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

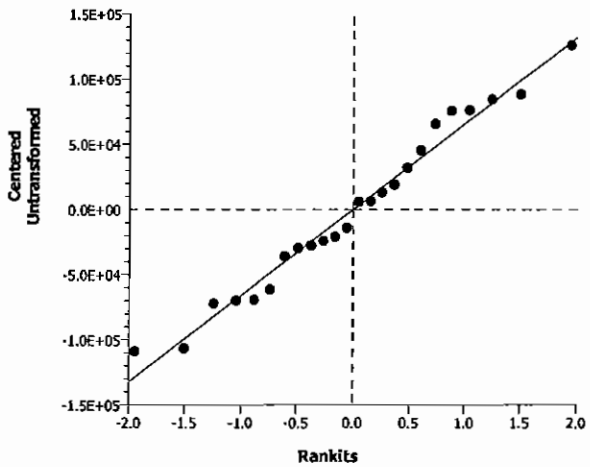
Analysis ID:	20-5123-8233	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:52	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.540E+6	1.675E+6	1.685E+6	1.537E+6
12.5		1.636E+6	1.709E+6	1.557E+6	1.752E+6
25		1.852E+6	1.656E+6	1.705E+6	1.690E+6
50		1.560E+6	1.616E+6	1.570E+6	1.590E+6
100		1.445E+6	1.523E+6	1.377E+6	1.409E+6

Graphics





CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	12-4419-3161	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 12:52	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	14-1959-5907	Test Type:	Cell Growth	Analyst:	
Start Date:	07 Oct-10 12:57	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	11 Oct-10 12:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	95h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	01-0160-8185	Code:	VCF1010054s	Client:	VCWPD
Sample Date:	06 Oct-10 08:00	Material:	Sample Water	Project:	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	Source:	Bioassay Report		
Sample Age:	29h (4.5 °C)	Station:	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7671117	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06796	NL - 0.2	Yes	Result Within Limits
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.95	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	86.06	67.47	N/A	1.162	N/A	1.482
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.146E+6	1.037E+6	1.222E+6	1.422E+4	7.786E+4	6.8%	0.0%
6.25		4	1.609E+6	1.537E+6	1.685E+6	1.494E+4	8.181E+4	5.08%	-40.45%
12.5		4	1.664E+6	1.557E+6	1.752E+6	1.564E+4	8.564E+4	5.15%	-45.19%
25		4	1.726E+6	1.656E+6	1.852E+6	1.582E+4	8.663E+4	5.02%	-50.62%
50		4	1.584E+6	1.560E+6	1.616E+6	4.511E+3	2.471E+4	1.56%	-38.25%
100		4	1.439E+6	1.377E+6	1.523E+6	1.147E+4	6.281E+4	4.37%	-25.55%

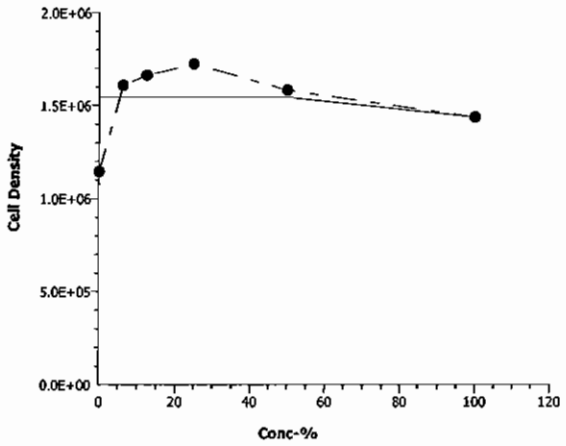
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.222E+6	1.159E+6	1.037E+6	1.165E+6
6.25		1.540E+6	1.675E+6	1.685E+6	1.537E+6
12.5		1.636E+6	1.709E+6	1.557E+6	1.752E+6
25		1.852E+6	1.656E+6	1.705E+6	1.690E+6
50		1.560E+6	1.616E+6	1.570E+6	1.590E+6
100		1.445E+6	1.523E+6	1.377E+6	1.409E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	12-4419-3161	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 12:52	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	14-1959-5907	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	07 Oct-10 12:57	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	11 Oct-10 12:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	01-0160-8185	**Code:**	VCF1010054s	**Client:**	VCWPD
Sample Date:	06 Oct-10 08:00	**Material:**	Sample Water	**Project:**	NPDES Stormwater Monitoring Progra
Receive Date:	06 Oct-10 09:25	**Source:**	Bioassay Report		
Sample Age:	29h (4.5 °C)	**Station:**	MO-SPA		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	70			70	70	0	0	0.0%	0
12.5		1	64			64	64	0	0	0.0%	0
25		1	65			65	65	0	0	0.0%	0
50		1	50			50	50	0	0	0.0%	0
100		1	23			23	23	0	0	0.0%	0
Overall		6	56.83			23	70				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	384	382.8	385.2	379	388	0.5893	3.536	0.92%	0
12.5		5	368.2	367.6	368.8	366	370	0.2739	1.643	0.45%	0
25		5	349.6	348.4	350.8	346	355	0.5845	3.507	1.0%	0
50		5	307.2	306.4	308	304	310	0.3979	2.387	0.78%	0
100		5	225.8	224.6	227	220	229	0.594	3.564	1.58%	0
Overall		30	345.2			220	449				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	110			110	110	0	0	0.0%	0
12.5		1	98			98	98	0	0	0.0%	0
25		1	100			100	100	0	0	0.0%	0
50		1	92			92	92	0	0	0.0%	0
100		1	49			49	49	0	0	0.0%	0
Overall		6	94			49	115				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		70
12.5		64
25		65
50		50
100		23

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		379	382	388	385	386
12.5		366	369	369	370	367
25		346	348	355	351	348
50		304	306	310	309	307
100		220	225	228	229	227

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		110
12.5		98
25		100
50		92
100		49

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

aquatic bioassay & consulting laboratories, inc

CHRONIC SILVERSIDE MINNOW SURVIVAL AND GROWTH BIOASSAY

7 October - 10

STANDARD TOXICANT: Copper Chloride

ENDPOINT:	SURVIVAL
NOEC =	100.00 ug/l
IC25 =	108.60ug/l
IC50 =	132.40 ug/l
ENDPOINT:	GROWTH
NOEC =	100.00 ug/l
IC25 =	117.60 ug/l
IC50 =	138.40 ug/l

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

CETIS Summary Report

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	19-8152-0207	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:20	**Protocol:**	EPA/821/R-02-014 (2002)	**Diluent:**	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	**Species:**	Menidia beryllina	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	7-10
Sample ID:	07-2052-4943	**Code:**	MEN100710m	**Client:**	Internal Lab
Sample Date:	07 Oct-10	**Material:**	Copper chloride	**Project:**	
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	15h	**Station:**			

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
01-4552-6956	7d Survival Rate	100	180	134.2	28.99%		Dunnett's Multiple Comparison Test
00-2815-3272	Mean Dry Biomass-mg	100	180	134.2	18.94%		Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	µg/L	95% LCL	95% UCL	TU	Method
05-9332-7397	7d Survival Rate	EC5	66.78	24.96	123.9		Linear Interpolation (ICPIN)
		EC10	81.96	29.67	121.3		
		EC15	97.14	43.64	118.7		
		EC20	103.9	60.14	121.2		
		EC25	108.6	70.46	124.9		
		EC40	122.9	91.75	135.9		
		EC50	132.4	106.5	143.3		
08-1908-9407	Mean Dry Biomass-mg	IC5	101	N/A	105.8		Linear Interpolation (ICPIN)
		IC10	105.2	15.9	109.7		
		IC15	109.3	86.57	113.6		
		IC20	113.5	98.04	117.5		
		IC25	117.6	103.2	121.4		
		IC40	130.1	118.5	133.1		
		IC50	138.4	128.8	140.9		

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
01-4552-6956	7d Survival Rate	Control Resp	0.825	0.8 - NL	Yes	Result Within Limits
05-9332-7397	7d Survival Rate	Control Resp	0.825	0.8 - NL	Yes	Result Within Limits
00-2815-3272	Mean Dry Biomass-mg	Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits
08-1908-9407	Mean Dry Biomass-mg	Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits
00-2815-3272	Mean Dry Biomass-mg	PMSD	0.1894	0.11 - 0.28	Yes	Result Within Limits

7d Survival Rate Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.825	0.8063	0.8437	0.8	0.9	0.009129	0.05	6.06%	0.0%
32		4	0.9	0.8695	0.9305	0.8	1	0.01491	0.08165	9.07%	-9.09%
56		4	0.85	0.8018	0.8982	0.7	1	0.02357	0.1291	15.19%	-3.03%
100		4	0.725	0.648	0.802	0.5	0.9	0.03764	0.2062	28.44%	12.12%
180		4	0	0	0	0	0	0	0		100.0%
320		4	0	0	0	0	0	0	0		100.0%

Mean Dry Biomass-mg Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.7135	0.69	0.737	0.638	0.792	0.01149	0.06292	8.82%	0.0%
32		4	0.74	0.7031	0.7769	0.616	0.858	0.01805	0.09887	13.36%	-3.71%
56		4	0.6988	0.6717	0.7258	0.615	0.784	0.01322	0.07244	10.37%	2.07%
100		4	0.6997	0.6644	0.7351	0.594	0.819	0.01727	0.0946	13.52%	1.93%
180		4	0	0	0	0	0	0	0		100.0%
320		4	0	0	0	0	0	0	0		100.0%

Inland Silverside 7-d Larval Survival and Growth Test **Aquatic Bioassay & Consulting Labs, Inc.**

7d Survival Rate Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8	0.9	0.8
32		0.9	0.9	0.8	1
56		0.8	0.7	0.9	1
100		0.9	0.6	0.9	0.5
180		0	0	0	0
320		0	0	0	0

Mean Dry Biomass-mg Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.638	0.71	0.792	0.714
32		0.616	0.745	0.858	0.741
56		0.784	0.725	0.615	0.671
100		0.667	0.594	0.719	0.819
180		0	0	0	0
320		0	0	0	0

CETIS Analytical Report

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-2815-3272	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 14:42	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	19-8152-0207	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:20	**Protocol:**	EPA/821/R-02-014 (2002)	**Diluent:**	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	**Species:**	Menidia beryllina	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	7-10
Sample ID:	07-2052-4943	**Code:**	MEN100710m	**Client:**	Internal Lab
Sample Date:	07 Oct-10	**Material:**	Copper chloride	**Project:**	
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	15h	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	180	134.2		18.94%

Dunnett's Multiple Comparison Test

Control	vs	Conc-µg/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		32	-0.4485	2.287	0.1352	0.8796	Non-Significant Effect
		56	0.2496	2.287	0.1352	0.6533	Non-Significant Effect
		100	0.2327	2.287	0.1352	0.6603	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits
PMSD	0.1894	0.11 - 0.28	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.659	2.586	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.004431499	0.001477166	3	0.2116	0.8865	Non-Significant Effect
Error	0.08378849	0.006982374	12			
Total	0.08821999	0.00845954	15			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	0.7078	11.34	0.8714	Equal Variances
Variances	Mod Levene Equality of Variance	0.246	5.953	0.8626	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9548		0.5690	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1127	0.2471	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.1041	2.576	0.9171	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.7135	0.6896	0.7374	0.638	0.792	0.01168	0.06292	8.82%	0.0%
32		4	0.74	0.7024	0.7776	0.616	0.858	0.01836	0.09887	13.36%	-3.71%
56		4	0.6988	0.6712	0.7263	0.615	0.784	0.01345	0.07244	10.37%	2.07%
100		4	0.6997	0.6638	0.7357	0.594	0.819	0.01757	0.0946	13.52%	1.93%
180		4	0	0	0	0	0	0	0		100.0%
320		4	0	0	0	0	0	0	0		100.0%

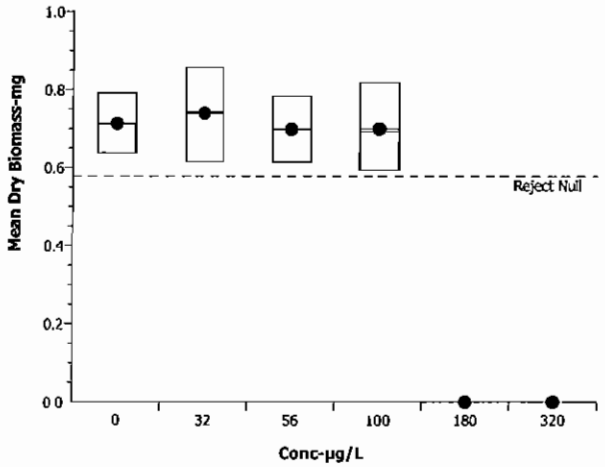
Inland Silverside 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

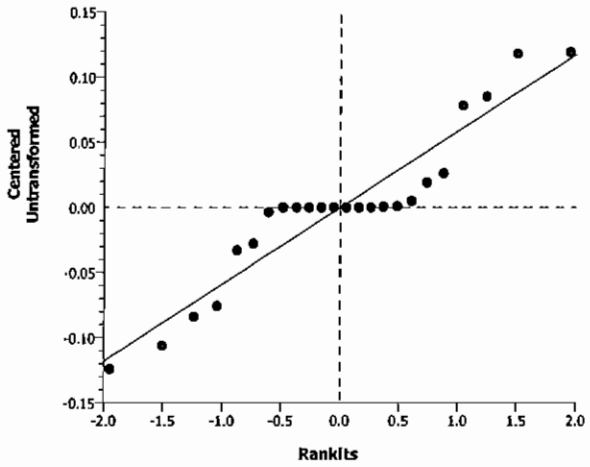
Analysis ID:	00-2815-3272	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 14:42	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.638	0.71	0.792	0.714
32		0.616	0.745	0.858	0.741
56		0.784	0.725	0.615	0.671
100		0.667	0.594	0.719	0.819
180		0	0	0	0
320		0	0	0	0

Graphics





Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	01-4552-6956	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 14:42	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	19-8152-0207	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:20	**Protocol:**	EPA/821/R-02-014 (2002)	**Diluent:**	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	**Species:**	Menidia beryllina	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	7-10
Sample ID:	07-2052-4943	**Code:**	MEN100710m	**Client:**	Internal Lab
Sample Date:	07 Oct-10	**Material:**	Copper chloride	**Project:**	
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	15h	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	180	134.2		28.99%

Dunnett's Multiple Comparison Test

Control	vs	Conc-µg/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		32	-0.9429	2.287	0.271	0.9553	Non-Significant Effect
		56	-0.3986	2.287	0.271	0.8682	Non-Significant Effect
		100	0.8462	2.287	0.271	0.3963	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.825	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.715	2.586	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.09556013	0.03185338	3	1.135	0.3741	Non-Significant Effect
Error	0.3367564	0.02806303	12			
Total	0.4323165	0.05991641	15			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.713	11.34	0.2942	Equal Variances
Variances	Mod Levene Equality of Variance	4.05	5.953	0.0334	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9496		0.4829	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.139	0.2471	0.5981	Normal Distribution
Distribution	D'Agostino Skewness	0.06079	2.576	0.9515	Normal Distribution

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	01-4552-6956	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	10 Jan-11 14:42	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes

7d Survival Rate Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.825	0.806	0.844	0.8	0.9	0.009285	0.05	6.06%	0.0%
32		4	0.9	0.8689	0.9311	0.8	1	0.01516	0.08165	9.07%	-9.09%
56		4	0.85	0.8009	0.8991	0.7	1	0.02397	0.1291	15.19%	-3.03%
100		4	0.725	0.6466	0.8034	0.5	0.9	0.03828	0.2062	28.44%	12.12%
180		4	0	0	0	0	0	0	0		100.0%
320		4	0	0	0	0	0	0	0		100.0%

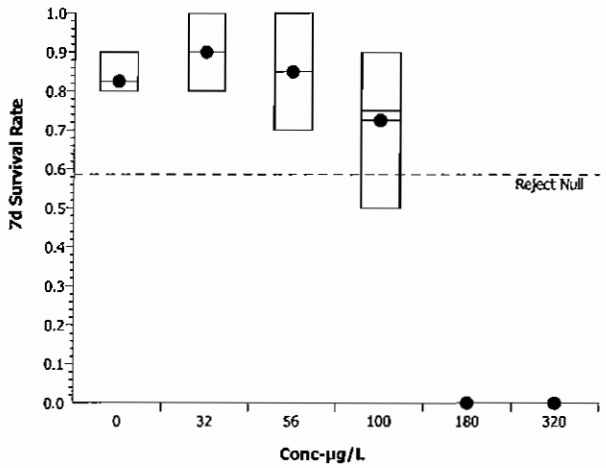
Angular (Corrected) Transformed Summary

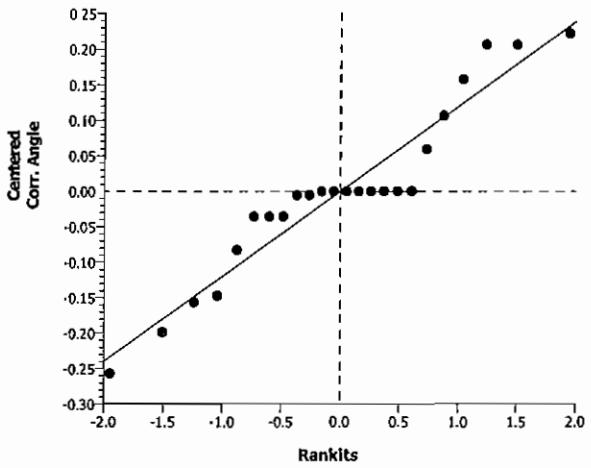
Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.143	1.116	1.17	1.107	1.249	0.01317	0.07095	6.21%	0.0%
32		4	1.254	1.207	1.302	1.107	1.412	0.02314	0.1246	9.94%	-9.78%
56		4	1.19	1.121	1.259	0.9912	1.412	0.03376	0.1818	15.28%	-4.13%
100		4	1.042	0.9503	1.134	0.7854	1.249	0.04496	0.2421	23.23%	8.77%
180		4	0.1588	0.1588	0.1588	0.1588	0.1588	0	0	0.0%	86.1%
320		4	0.1588	0.1588	0.1588	0.1588	0.1588	0	0	0.0%	86.1%

7d Survival Rate Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8	0.9	0.8
32		0.9	0.9	0.8	1
56		0.8	0.7	0.9	1
100		0.9	0.6	0.9	0.5
180		0	0	0	0
320		0	0	0	0

Graphics





CETIS Analytical Report

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	08-1908-9407	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 14:42	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	19-8152-0207	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:20	**Protocol:**	EPA/821/R-02-014 (2002)	**Diluent:**	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	**Species:**	Menidia beryllina	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	7-10
Sample ID:	07-2052-4943	**Code:**	MEN100710m	**Client:**	Internal Lab
Sample Date:	07 Oct-10	**Material:**	Copper chloride	**Project:**	
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	15h	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.7135	0.5 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.054	2.802	0.7794	No Outliers Detected

Point Estimates

Level	µg/L	95% LCL	95% UCL
IC5	101	N/A	105.8
IC10	105.2	15.9	109.7
IC15	109.3	86.57	113.6
IC20	113.5	98.04	117.5
IC25	117.6	103.2	121.4
IC40	130.1	118.5	133.1
IC50	138.4	128.8	140.9

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-µg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.7135	0.638	0.792	0.01149	0.06292	8.82%	0.0%
32		4	0.74	0.616	0.858	0.01805	0.09887	13.36%	-3.71%
56		4	0.6988	0.615	0.784	0.01322	0.07244	10.37%	2.07%
100		4	0.6997	0.594	0.819	0.01727	0.0946	13.52%	1.93%
180		4	0	0	0	0	0		100.0%
320		4	0	0	0	0	0		100.0%

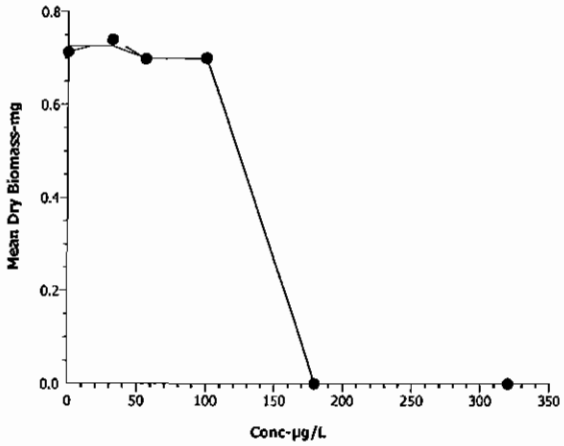
Mean Dry Biomass-mg Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.638	0.71	0.792	0.714
32		0.616	0.745	0.858	0.741
56		0.784	0.725	0.615	0.671
100		0.667	0.594	0.719	0.819
180		0	0	0	0
320		0	0	0	0

Inland Silverside 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	08-1908-9407	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 14:42	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-9332-7397	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 14:42	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	19-8152-0207	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:20	**Protocol:**	EPA/821/R-02-014 (2002)	**Diluent:**	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	**Species:**	Menidia beryllina	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	7-10
Sample ID:	07-2052-4943	**Code:**	MEN100710m	**Client:**	Internal Lab
Sample Date:	07 Oct-10	**Material:**	Copper chloride	**Project:**	
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	15h	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.825	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.124	2.802	0.6348	No Outliers Detected

Point Estimates

Level	µg/L	95% LCL	95% UCL
EC5	66.78	24.96	123.9
EC10	81.96	29.67	121.3
EC15	97.14	43.64	118.7
EC20	103.9	60.14	121.2
EC25	108.6	70.46	124.9
EC40	122.9	91.75	135.9
EC50	132.4	106.5	143.3

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-µg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.825	0.8	0.9	0.009129	0.05	6.06%	0.0%	33	40
32		4	0.9	0.8	1	0.01491	0.08165	9.07%	-9.09%	36	40
56		4	0.85	0.7	1	0.02357	0.1291	15.19%	-3.03%	34	40
100		4	0.725	0.5	0.9	0.03764	0.2062	28.44%	12.12%	29	40
180		4	0	0	0	0	0		100.0%	0	40
320		4	0	0	0	0	0		100.0%	0	40

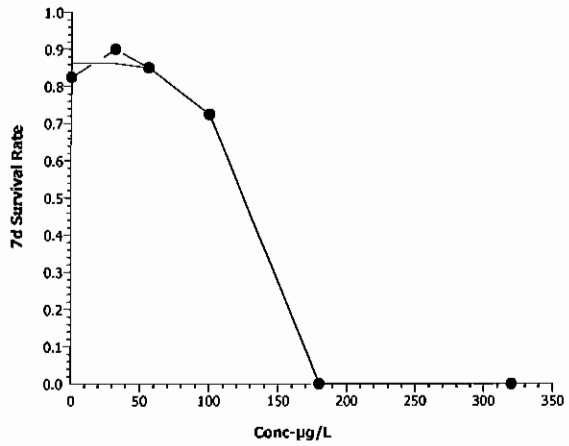
7d Survival Rate Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8	0.9	0.8
32		0.9	0.9	0.8	1
56		0.8	0.7	0.9	1
100		0.9	0.6	0.9	0.5
180		0	0	0	0
320		0	0	0	0

Inland Silverside 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	05-9332-7397	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	10 Jan-11 14:42	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Inland Silverside 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	19-8152-0207	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 15:20	**Protocol:**	EPA/821/R-02-014 (2002)	**Diluent:**	Laboratory Seawater
Ending Date:	14 Oct-10 16:00	**Species:**	Menidia beryllina	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	7-10
Sample ID:	07-2052-4943	**Code:**	MEN100710m	**Client:**	Internal Lab
Sample Date:	07 Oct-10	**Material:**	Copper chloride	**Project:**	
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	15h	**Station:**			

Dissolved Oxygen-mg/L

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	6.375	6.213	6.537	5.6	6.9	0.07956	0.4773	7.49%	0
32		8	6.425	6.278	6.572	5.6	6.9	0.07224	0.4334	6.75%	0
56		8	6.1	5.956	6.244	5.6	6.7	0.07071	0.4243	6.96%	0
100		8	6.463	6.318	6.607	5.6	6.8	0.07123	0.4274	6.61%	0
180		8	6.288	6.116	6.459	5.5	6.8	0.08472	0.5083	8.09%	0
320		1	5.6			5.6	5.6	0	0	0.0%	0
Overall		41	6.208			5.5	6.9				0 (0%)

pH-Units

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.6	7.517	7.683	7.1	7.8	0.04083	0.245	3.22%	0
32		8	7.663	7.593	7.732	7.2	7.8	0.03443	0.2066	2.7%	0
56		8	7.65	7.582	7.718	7.2	7.8	0.03333	0.2	2.61%	0
100		8	7.65	7.582	7.718	7.2	7.8	0.03333	0.2	2.61%	0
180		8	7.675	7.628	7.722	7.4	7.8	0.02315	0.1389	1.81%	0
320		1	7.8			7.8	7.8	0	0	0.0%	0
Overall		41	7.673			7.1	7.8				0 (0%)

Salinity-ppt

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	34	34	34	34	34	0	0	0.0%	0
32		8	34	34	34	34	34	0	0	0.0%	0
56		8	34	34	34	34	34	0	0	0.0%	0
100		8	34	34	34	34	34	0	0	0.0%	0
180		8	34	34	34	34	34	0	0	0.0%	0
320		1	34			34	34	0	0	0.0%	0
Overall		41	34			34	34				0 (0%)

Temperature-°C

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.14	24.11	24.17	24	24.3	0.01526	0.09153	0.38%	0
32		8	24.06	24.05	24.08	24	24.1	0.008602	0.05161	0.21%	0
56		8	24.08	24.06	24.09	24	24.1	0.007683	0.0461	0.19%	0
100		8	24.08	24.06	24.09	24	24.1	0.007683	0.0461	0.19%	0
180		8	24.06	24.05	24.08	24	24.1	0.008602	0.05161	0.21%	0
320		1	24			24	24	0	0	0.0%	0
Overall		41	24.07			24	24.3				0 (0%)

Inland Silverside 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Dissolved Oxygen-mg/L

Conc-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	5.6	6.7	6.9	6.9	6.3	6.6	6	6
32		5.6	6.7	6.9	6.7	6.8	6.3	6.2	6.2
56		5.6	6.7	5.8	6.7	6.2	6.2	5.8	5.8
100		5.6	6.7	6.7	6.8	6.8	6.7	6.2	6.2
180		5.6	6.6	6.8	6.7	6.7	6.2	6.2	5.5
320		5.6							

pH-Units

Conc-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7.6	7.6	7.8	7.8	7.4	7.8	7.1
32		7.8	7.6	7.6	7.8	7.8	7.7	7.8	7.2
56		7.8	7.6	7.6	7.7	7.8	7.7	7.8	7.2
100		7.8	7.6	7.6	7.7	7.8	7.7	7.8	7.2
180		7.8	7.6	7.6	7.7	7.8	7.7	7.8	7.4
320		7.8							

Salinity-ppt

Conc-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	34	34	34	34	34	34	34	34
32		34	34	34	34	34	34	34	34
56		34	34	34	34	34	34	34	34
100		34	34	34	34	34	34	34	34
180		34	34	34	34	34	34	34	34
320		34							

Temperature-°C

Conc-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.2	24.1	24.1	24.1	24.1	24.2	24.3
32		24	24.1	24.1	24.1	24.1	24	24	24.1
56		24	24.1	24.1	24.1	24.1	24	24.1	24.1
100		24	24.1	24.1	24.1	24.1	24	24.1	24.1
180		24	24.1	24.1	24.1	24	24	24.1	24.1
320		24							

aquatic bioassay & consulting laboratories, inc

CHRONIC FATHEAD MINNOW SURVIVAL AND GROWTH BIOASSAY

DATE: 7 October 2010

STANDARD TOXICANT: Copper Chloride

ENDPOINT: SURVIVAL

NOEC = 19.00 ug/l

IC25 = 43.00ug/l
IC50 = 65.01 ug/l

ENDPOINT: GROWTH

NOEC = 19.00 ug/l

IC25 = 41.2Iug/l
IC50 = 59.09 ug/l

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	14-6656-2260	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:30	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	09-9912-5879	Code:	FML100710f	Client:	Internal Lab
Sample Date:	07 Oct-10	Material:	Copper chloride	Project:	
Receive Date:		Source:	Reference Toxicant		
Sample Age:	14h	Station:			

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
05-8102-7235	7d Survival Rate	19	38	26.87	10.28%		Dunnett's Multiple Comparison Test
08-2015-4590	Mean Dry Biomass-mg	19	38	26.87	19.27%		Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	µg/L	95% LCL	95% UCL	TU	Method
18-7988-9370	7d Survival Rate	EC5	20	11.79	28.06		Linear Interpolation (ICPIN)
		EC10	26.28	16.58	39.96		
		EC15	32.56	22.57	46.2		
		EC20	38.59	28.29	49.06		
		EC25	43	32.98	53.72		
		EC40	56.2	46.75	75.1		
		EC50	65.01	53.71	86.88		
17-9637-2191	Mean Dry Biomass-mg	IC5	21.72	N/A	34.61		Linear Interpolation (ICPIN)
		IC10	26.96	N/A	46.1		
		IC15	32.21	15	47.34		
		IC20	37.46	20.12	48.84		
		IC25	41.21	24.92	51.54		
		IC40	51.94	38.06	61.96		
		IC50	59.09	48.01	70.86		

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
05-8102-7235	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
18-7988-9370	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
08-2015-4590	Mean Dry Biomass-mg	Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
17-9637-2191	Mean Dry Biomass-mg	Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
08-2015-4590	Mean Dry Biomass-mg	PMSD	0.1927	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	0.0%
10		4	1	1	1	1	1	0	0	0.0%	-1.7%
19		4	0.95	0.9262	0.9738	0.8667	1	0.01165	0.06383	6.72%	3.39%
38		4	0.8	0.7648	0.8352	0.7333	0.9333	0.01721	0.09428	11.79%	18.64%
75		4	0.3833	0.3211	0.4456	0.2	0.6	0.03043	0.1667	43.48%	61.02%
100		4	0.2167	0.1928	0.2405	0.1333	0.2667	0.01165	0.06383	29.46%	77.97%

Mean Dry Biomass-mg Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.3231	0.3582	0.308	0.4087	0.008576	0.04697	13.79%	0.0%
10		4	0.35	0.3432	0.3568	0.3287	0.3707	0.003333	0.01826	5.22%	-2.74%
19		4	0.337	0.3251	0.3489	0.3007	0.3713	0.005828	0.03192	9.47%	1.08%
38		4	0.2745	0.2538	0.2952	0.2167	0.3387	0.01011	0.05539	20.18%	19.42%
75		4	0.09583	0.07927	0.1124	0.062	0.158	0.008098	0.04435	46.28%	71.87%
100		4	0.0615	0.0547	0.0683	0.038	0.08133	0.003326	0.01822	29.63%	81.95%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	1
10		1	1	1	1
19		1	0.9333	1	0.8667
38		0.7333	0.9333	0.7333	0.8
75		0.3333	0.6	0.2	0.4
100		0.2667	0.1333	0.2667	0.2

Mean Dry Biomass-mg Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
10		0.3427	0.3287	0.358	0.3707
19		0.3007	0.3547	0.3713	0.3213
38		0.2167	0.3387	0.3007	0.242
75		0.066	0.158	0.062	0.09733
100		0.08133	0.038	0.068	0.05867

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	08-2015-4590	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	05 Jan-11 16:03	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	14-6656-2260	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:30	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	09-9912-5879	**Code:**	FML100710f	**Client:**	Internal Lab
Sample Date:	07 Oct-10	**Material:**	Copper chloride	**Project:**	
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	14h	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	19	38	26.87		19.27%

Dunnett's Multiple Comparison Test

Control	vs	Conc-µg/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		10	-0.3422	2.407	0.06565	0.9145	Non-Significant Effect
		19	0.1344	2.407	0.06565	0.7907	Non-Significant Effect
		38*	2.426	2.407	0.06565	0.0482	Significant Effect
		75*	8.977	2.407	0.06565	<0.0001	Significant Effect
		100*	10.24	2.407	0.06565	<0.0001	Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits
PMSD	0.1927	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.993	2.802	0.9284	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.3416637	0.06833275	5	45.94	<0.0001	Significant Effect
Error	0.02677655	0.001487586	18			
Total	0.3684403	0.06982033	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.25	15.09	0.3862	Equal Variances
Variances	Mod Levene Equality of Variance	1.224	4.248	0.3381	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9429		0.1896	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1091	0.2056	0.6724	Normal Distribution
Distribution	D'Agostino Skewness	1.227	2.576	0.2199	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2145	2.576	0.8302	Normal Distribution
Distribution	D'Agostino Omnibus	1.551	9.21	0.4605	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.3228	0.3585	0.308	0.4087	0.008723	0.04697	13.79%	0.0%
10		4	0.35	0.3431	0.3569	0.3287	0.3707	0.00339	0.01826	5.22%	-2.74%
19		4	0.337	0.3249	0.3491	0.3007	0.3713	0.005927	0.03192	9.47%	1.08%
38		4	0.2745	0.2534	0.2956	0.2167	0.3387	0.01029	0.05539	20.18%	19.42%
75		4	0.09583	0.07896	0.1127	0.062	0.158	0.008236	0.04435	46.28%	71.87%
100		4	0.0615	0.05457	0.06843	0.038	0.08133	0.003383	0.01822	29.63%	81.95%

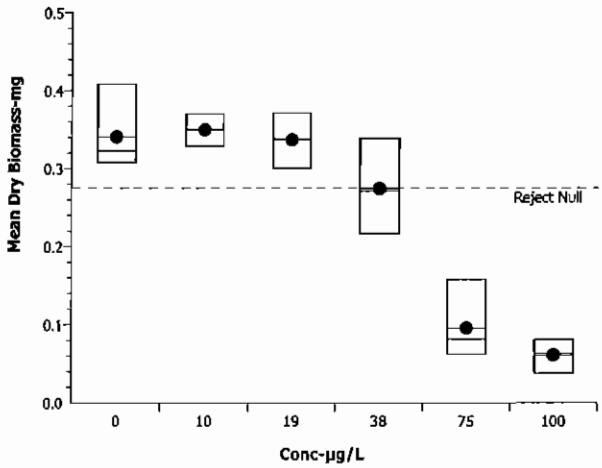
Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

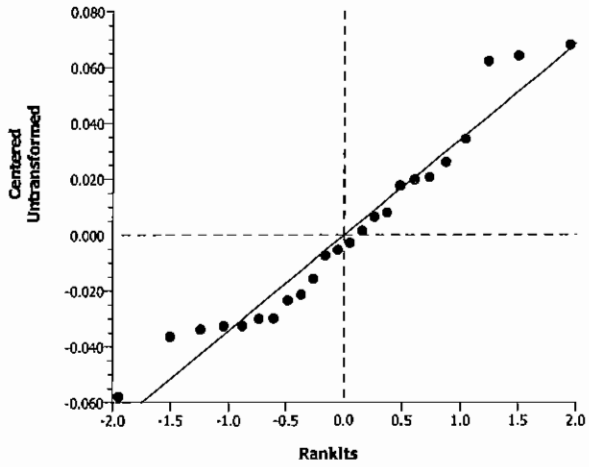
Analysis ID:	08-2015-4590	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	05 Jan-11 16:03	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
10		0.3427	0.3287	0.358	0.3707
19		0.3007	0.3547	0.3713	0.3213
38		0.2167	0.3387	0.3007	0.242
75		0.066	0.158	0.062	0.09733
100		0.08133	0.038	0.068	0.05867

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-8102-7235	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	05 Jan-11 16:03	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	14-6656-2260	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:30	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	09-9912-5879	Code:	FML100710f	Client:	Internal Lab
Sample Date:	07 Oct-10	Material:	Copper chloride	Project:	
Receive Date:		Source:	Reference Toxicant		
Sample Age:	14h	Station:			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	19	38	26.87		10.28%

Dunnett's Multiple Comparison Test

Control	vs	Conc-µg/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		10	-0.4218	2.407	0.1879	0.9280	Non-Significant Effect
		19	0.7826	2.407	0.1879	0.5202	Non-Significant Effect
		38*	3.717	2.407	0.1879	0.0034	Significant Effect
		75*	9.557	2.407	0.1879	<0.0001	Significant Effect
		100*	11.89	2.407	0.1879	<0.0001	Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.29	2.802	0.3749	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	3.379109	0.6758218	5	55.47	<0.0001	Significant Effect
Error	0.2193135	0.01218408	18			
Total	3.598423	0.6880059	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	1.58	4.248	0.2160	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9716		0.7055	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.118	0.2056	0.5281	Normal Distribution
Distribution	D'Agostino Skewness	0.6115	2.576	0.5409	Normal Distribution
Distribution	D'Agostino Kurtosis	0.8319	2.576	0.4055	Normal Distribution
Distribution	D'Agostino Omnibus	1.066	9.21	0.5869	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-8102-7235	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	05 Jan-11 16:03	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes

7d Survival Rate Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	0.0%
10		4	1	1	1	1	1	0	0	0.0%	-1.7%
19		4	0.95	0.9257	0.9743	0.8667	1	0.01185	0.06383	6.72%	3.39%
38		4	0.8	0.7641	0.8359	0.7333	0.9333	0.01751	0.09428	11.79%	18.64%
75		4	0.3833	0.3199	0.4467	0.2	0.6	0.03095	0.1667	43.48%	61.02%
100		4	0.2167	0.1924	0.2409	0.1333	0.2667	0.01185	0.06383	29.46%	77.97%

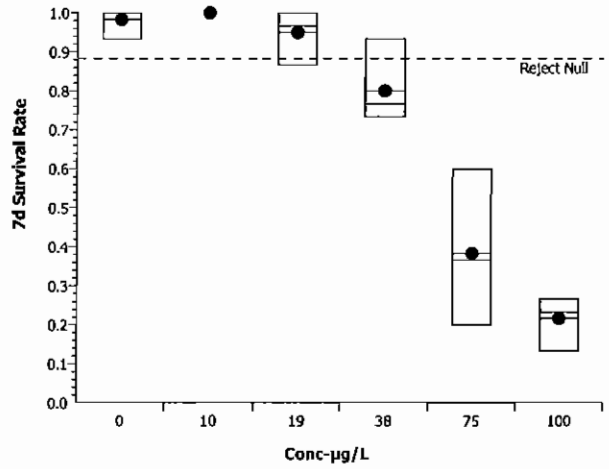
Angular (Corrected) Transformed Summary

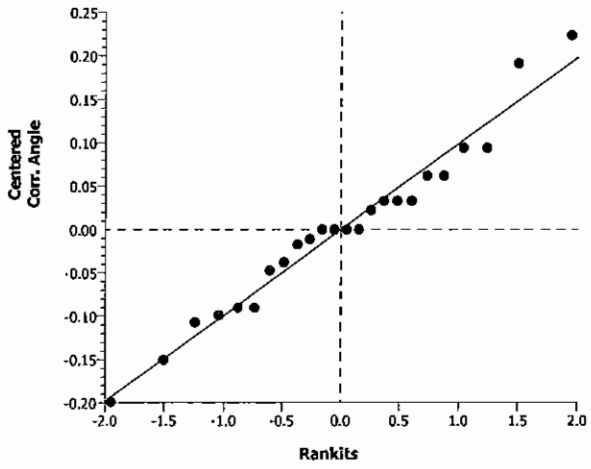
Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	0.0%
10		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-2.34%
19		4	1.347	1.302	1.392	1.197	1.441	0.02189	0.1179	8.75%	4.34%
38		4	1.118	1.068	1.169	1.028	1.31	0.02468	0.1329	11.88%	20.6%
75		4	0.6625	0.5958	0.7292	0.4636	0.8861	0.03256	0.1753	26.47%	52.96%
100		4	0.4807	0.4501	0.5113	0.3738	0.5426	0.01493	0.0804	16.73%	65.87%

7d Survival Rate Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	1
10		1	1	1	1
19		1	0.9333	1	0.8667
38		0.7333	0.9333	0.7333	0.8
75		0.3333	0.6	0.2	0.4
100		0.2667	0.1333	0.2667	0.2

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	17-9637-2191	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	05 Jan-11 16:03	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	14-6656-2260	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:30	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	09-9912-5879	Code:	FML100710f	Client:	Internal Lab
Sample Date:	07 Oct-10	Material:	Copper chloride	Project:	
Receive Date:		Source:	Reference Toxicant		
Sample Age:	14h	Station:			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3407	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.993	2.802	0.9284	No Outliers Detected

Point Estimates

Level	µg/L	95% LCL	95% UCL
IC5	21.72	N/A	34.61
IC10	26.96	N/A	46.1
IC15	32.21	15	47.34
IC20	37.46	20.12	48.84
IC25	41.21	24.92	51.54
IC40	51.94	38.06	61.96
IC50	59.09	48.01	70.86

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-µg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3407	0.308	0.4087	0.008576	0.04697	13.79%	0.0%
10		4	0.35	0.3287	0.3707	0.003333	0.01826	5.22%	-2.74%
19		4	0.337	0.3007	0.3713	0.005828	0.03192	9.47%	1.08%
38		4	0.2745	0.2167	0.3387	0.01011	0.05539	20.18%	19.42%
75		4	0.09583	0.062	0.158	0.008098	0.04435	46.28%	71.87%
100		4	0.0615	0.038	0.08133	0.003326	0.01822	29.63%	81.95%

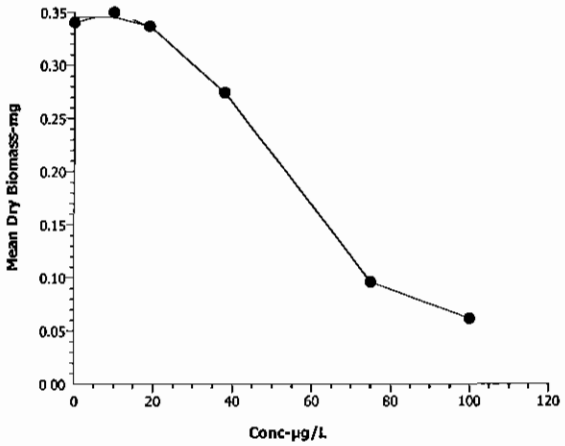
Mean Dry Biomass-mg Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3107	0.3353	0.308	0.4087
10		0.3427	0.3287	0.358	0.3707
19		0.3007	0.3547	0.3713	0.3213
38		0.2167	0.3387	0.3007	0.242
75		0.066	0.158	0.062	0.09733
100		0.08133	0.038	0.068	0.05867

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	17-9637-2191	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	05 Jan-11 16:03	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-7988-9370	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	05 Jan-11 16:03	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	14-6656-2260	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	07 Oct-10 14:30	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	14 Oct-10 15:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 1h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	09-9912-5879	Code:	FML100710f	Client:	Internal Lab
Sample Date:	07 Oct-10	Material:	Copper chloride	Project:	
Receive Date:		Source:	Reference Toxicant		
Sample Age:	14h	Station:			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.29	2.802	0.3749	No Outliers Detected

Point Estimates

Level	µg/L	95% LCL	95% UCL
EC5	20	11.79	28.06
EC10	26.28	16.58	39.96
EC15	32.56	22.57	46.2
EC20	38.59	28.29	49.06
EC25	43	32.98	53.72
EC40	56.2	46.75	75.1
EC50	65.01	53.71	86.88

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-µg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9833	0.9333	1	0.006086	0.03333	3.39%	0.0%	59	60
10		4	1	1	1	0	0	0.0%	-1.7%	60	60
19		4	0.95	0.8667	1	0.01165	0.06383	6.72%	3.39%	57	60
38		4	0.8	0.7333	0.9333	0.01721	0.09428	11.79%	18.64%	48	60
75		4	0.3833	0.2	0.6	0.03043	0.1667	43.48%	61.02%	23	60
100		4	0.2167	0.1333	0.2667	0.01165	0.06383	29.46%	77.97%	13	60

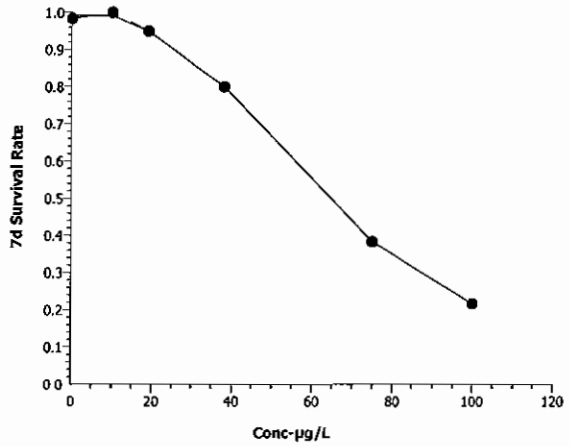
7d Survival Rate Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	1	1
10		1	1	1	1
19		1	0.9333	1	0.8667
38		0.7333	0.9333	0.7333	0.8
75		0.3333	0.6	0.2	0.4
100		0.2667	0.1333	0.2667	0.2

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	18-7988-9370	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	05 Jan-11 16:03	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	14-6656-2260	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	07 Oct-10 14:30	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	14 Oct-10 15:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 1h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	09-9912-5879	**Code:**	FML100710f	**Client:**	Internal Lab
Sample Date:	07 Oct-10	**Material:**	Copper chloride	**Project:**	
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	14h	**Station:**			

Alkalinity (CaCO3)-mg/L

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60	60	60	60	60	0	0	0.0%	0
100		8	66	66	66	66	66	0	0	0.0%	0
Overall		16	63			60	66				0 (0%)

Conductivity-µmhos

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	338.8	335.2	342.3	326	361	1.772	10.63	3.14%	0
10		8	323.9	320.6	327.1	318	347	1.61	9.658	2.98%	0
19		8	322.3	320.4	324.1	318	333	0.9161	5.497	1.71%	0
38		8	319.8	319.1	320.4	318	324	0.3303	1.982	0.62%	0
75		8	328.6	326.2	331.1	319	337	1.198	7.19	2.19%	0
100		8	320.5	319	322	317	331	0.74	4.44	1.39%	0
Overall		48	325.6			317	361				0 (0%)

Dissolved Oxygen-mg/L

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.613	7.467	7.758	6.9	8	0.07151	0.4291	5.64%	0
10		8	6.913	6.805	7.02	6.5	7.6	0.05303	0.3182	4.6%	0
19		8	6.988	6.87	7.105	6.7	7.6	0.05803	0.3482	4.98%	0
38		8	7.55	7.402	7.698	6.8	7.9	0.07292	0.4375	5.8%	0
75		8	7.138	6.889	7.386	6.1	7.9	0.1225	0.7347	10.29%	0
100		8	7.4	7.177	7.623	6.2	8.1	0.1098	0.659	8.91%	0
Overall		48	7.267			6.1	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	90	90	90	90	90	0	0	0.0%	0
100		8	90	90	90	90	90	0	0	0.0%	0
Overall		16	90			90	90				0 (0%)

Total Ammonia (N)-mg/L

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

pH-Units

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.938	7.878	7.997	7.7	8.3	0.02946	0.1768	2.23%	0
10		8	7.85	7.832	7.868	7.8	7.9	0.008908	0.05345	0.68%	0
19		8	7.85	7.832	7.868	7.8	7.9	0.008908	0.05345	0.68%	0
38		8	7.875	7.845	7.905	7.8	8	0.01477	0.08864	1.13%	0
75		8	7.888	7.859	7.916	7.8	8	0.01391	0.08345	1.06%	0
100		8	7.825	7.809	7.841	7.8	7.9	0.007716	0.0463	0.59%	0
Overall		48	7.871			7.7	8.3				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.2	24.13	24.27	24	24.5	0.03211	0.1927	0.8%	0
10		8	24.26	24.21	24.32	24.1	24.6	0.02808	0.1685	0.69%	0
19		8	24.19	24.17	24.21	24.1	24.3	0.01066	0.06395	0.26%	0
38		8	24.13	24.07	24.18	24	24.5	0.0292	0.1752	0.73%	0
75		8	24.16	24.12	24.2	24	24.3	0.01979	0.1188	0.49%	0
100		8	24.23	24.19	24.26	24.1	24.5	0.0194	0.1164	0.48%	0
Overall		48	24.19			24	24.6				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-µg/L	Control Type	1	2	3	4	6	6	7	8
0	Negative Contr	60	60	60	60	60	60	60	60
100		66	66	66	66	66	66	66	66

Conductivity-µmhos

Conc-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	326	330	335	338	338	337	345	361
10		326	347	318	319	319	321	321	320
19		320	318	319	318	319	333	328	323
38		319	324	320	319	318	318	319	321
75		337	334	335	332	330	319	321	321
100		321	320	320	319	318	317	318	331

Dissolved Oxygen-mg/L

Conc-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.9	8	7.9	7.9	7.9	7	7.7	7.6
10		6.9	7.6	7	6.5	6.8	6.9	6.9	6.7
19		6.8	6.9	6.7	7.1	7.6	6.7	7.4	6.7
38		6.9	6.8	7.7	7.9	7.8	7.7	7.8	7.8
75		6.9	6.8	7.7	7.7	7.8	7.9	6.1	6.2
100		7	8.1	7.7	7.8	7.9	6.2	7.7	6.8

Hardness (CaCO3)-mg/L

Conc-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	90	90	90	90	90	90
100		90	90	90	90	90	90	90	90

Total Ammonia (N)-mg/L

Conc-µg/L	Control Type	1
0	Negative Contr	0
100		0

pH-Units

Conc-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.8	7.9	8	8.3	7.7
10		7.8	7.8	7.9	7.9	7.8	7.8	7.9	7.9
19		7.8	7.8	7.8	7.9	7.9	7.8	7.9	7.9
38		7.8	7.8	7.8	7.9	7.9	7.8	8	8
75		7.8	7.8	7.8	7.9	7.9	7.9	8	8
100		7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.9

Temperature-°C

Conc-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.2	24.5	24.1	24.1	24	24.5	24.1	24.1
10		24.2	24.6	24.1	24.2	24.3	24.4	24.1	24.2
19		24.2	24.3	24.2	24.2	24.2	24.2	24.1	24.1
38		24.2	24.1	24.5	24.2	24	24	24	24
75		24.2	24.2	24.1	24	24	24.2	24.3	24.3
100		24.2	24.5	24.2	24.1	24.2	24.2	24.2	24.2

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Toxicity - ABC Laboratories

Sampling Date: 10-6-10 Sample Event: 1 - WET

Sampling Team: A. ANSELM, D. THOMAS

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
MO-OXN	10-6-10 2:15					X	X	X	2	Note 1, Note 2 1039
MO-HUE	" 3:35					X	X	X	2	Note 1, Note 2 1040
~~MO-THO~~						X	X	X	2	Note 1, Note 2
~~MO-MPK~~						X	X	X	2	Note 1, Note 2
~~MO-SHM~~						X	X	X	2	Note 1, Note 2
~~MO-FIL~~						X	X	X	2	Note 1, Note 2
~~MO-SPA~~						X	X	X	2	Note 1, Note 2

Relinquished
Printed Name: DAVID F. THOMAS
Signature: David F Thomas
Affiliation: VRSO/ WPD Date/Tim: 10.6.10 7:15

Received
Printed Name:
Signature:
Affiliation: Date/Tim:

Other Notes:
Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%
Note 2: Please execute TIE if mortality > 50%

TEMP = 12.5°C
CHLORINE = <0.1

10/6/10

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Toxicity - ABC Laboratories

Sampling Date: 10-6-2010 Sample Event: 2010-11-1 (WET)

Sampling Team: WB CAREY, C. STEPHENS

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
~~MO-OXN~~						X	X	X	2	Note 1, Note 2 .039
~~MO-HUE~~						X	X	X	2	Note 1, Note 2 .040
MO-THO	10-6-10 0816					X	X	X	2	Note 1, Note 2 .050
MO-MPK	10-6-10 0430					X	X	X	2	Note 1, Note 2 .051
MO-SIM	10-6-10 0545					X	X	X	2	Note 1, Note 2 .052
MO-FIL	10-6-10 0700					X	X	X	2	Note 1, Note 2 .053
MO-SPA	10-6-10 0800					X	X	X	2	Note 1, Note 2 .054

Relinquished Printed Name CHRIS STEPHENS

Signature

Affiliation UCWPD Date/Tim 10-6-10

Received Printed Name ELIZABETH MATHIEU

Signature

Affiliation AQUATIC BIOASSAY Date/Tim 10-7-10 0930

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%

Note 2: Please execute TIE if mortality > 50%

TEMP = 4.5°
CHLORINE = 0.0

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Toxicity - ABC Laboratories

Sampling Date: 10.6.10 Sample Event: 1-WET

Sampling Team: A. ANSELM, D. THOMAS

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
ME-CC	10-6-10 4:30	X	X	X	X				2	Note 1, Note 2 ,041
ME-SCR	" 5:30				X				1	Note 1, Note 2 ,042
~~ME-VR2~~		X	X	X	X				2	Note 1, Note 2 ,044
MO-CAM	" 2:45					X			2	Note 1, Note 2 ~~,045~~ ,043
~~MO-OJA~~						X			2	Note 1, Note 2 ~~,046~~ ,045
~~MO-MEI~~						X			2	Note 1, Note 2 ,046
~~MO-VEN~~							X		1	Note 1, Note 2 ,047
~~MD-1~~										

Relinquished Printed Name DAVID F. THOMAS

Signature David F Thomas

Affiliation VCSD/WPD Date/Tim: 10.6.10 7:15

Received Printed Name NOEL DE JESUS

Signature

Affiliation ABC Date/Tim: 10.06.10 0715

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%

Note 2: Please execute TIE if mortality > 50%

TEMP = 13.5 °C

(THANKS = CO.)

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Toxicity - ABC Laboratories

Sampling Date: 10/6/10 Sample Event: EVENT 1 2010/11 WET

Sampling Team: K. HAHS, Z. CARLSON

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES	
ME-CC		X	X	X	X				2	Note 1, Note 2	041
ME-SCR					X				1	Note 1, Note 2	042
ME-VR2	10/6/10 0500	X	X	X	X				2	Note 1, Note 2	044
MO-CAM						X			2	Note 1, Note 2	043
MO-OJA	10/6/10 0740					X			2	Note 1, Note 2	045
MO-MEI	10/6/10 0630					X			2	Note 1, Note 2	046
MO-VEN	10/6/10 0310						X		1	Note 1, Note 2	047
~~MD-1~~											

Relinquished Printed Name KELLY HAHS

Signature Kelly Hahs

Affiliation VCWPD Date/Tim 10/6/10 / 0830

Received Printed Name Joe Freas

Signature

Affiliation ABC Labs Date/Tim 10/6/10 0830

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%

Note 2: Please execute TIE if mortality > 50%

Temp = 5.4°C

Chlorine = 2.0

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-OXN
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.333

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

for

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	07-1818-8141	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:05	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	11-8299-3719	Code:	VCF1110333cf	Client:	VCWPD
Sample Date:	30 Oct-10 03:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	81h (5.2 °C)	Station:	MO-OXN		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
02-2031-9207	7d Survival Rate	100	>100	N/A	16.0%	1	Dunnett's Multiple Comparison Test
16-8036-7043	Mean Dry Biomass-mg	100	>100	N/A	39.65%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
05-9298-7861	7d Survival Rate	EC5	3.625	1.237	14.83	27.59	Linear Interpolation (ICPIN)
		EC10	8.75	1.574	69.61	11.43	
		EC15	21.61	3.702	N/A	4.628	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
17-1777-4456	Mean Dry Biomass-mg	IC5	2.245	0.9868	N/A	44.54	Linear Interpolation (ICPIN)
		IC10	4.49	1.974	N/A	22.27	
		IC15	24.93	N/A	N/A	4.012	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
02-2031-9207	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
05-9298-7861	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
16-8036-7043	Mean Dry Biomass-mg	Control Resp	0.3095	0.25 - NL	Yes	Result Within Limits
17-1777-4456	Mean Dry Biomass-mg	Control Resp	0.3095	0.25 - NL	Yes	Result Within Limits
16-8036-7043	Mean Dry Biomass-mg	PMSD	0.3965	0.12 - 0.3	Yes	Result Above Limit

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	0.0%
6.25		4	0.8833	0.8595	0.9072	0.8	0.9333	0.01165	0.06383	7.23%	8.62%
12.5		4	0.85	0.8262	0.8738	0.8	0.9333	0.01165	0.06383	7.51%	12.07%
25		4	0.75	0.6678	0.8322	0.5333	1	0.04022	0.2203	29.37%	22.41%
50		4	0.7333	0.6981	0.7685	0.6	0.8	0.01721	0.09428	12.86%	24.14%
100		4	0.95	0.9262	0.9738	0.8667	1	0.01165	0.06383	6.72%	1.72%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3095	0.2951	0.3239	0.2753	0.3573	0.007039	0.03855	12.46%	0.0%
6.25		4	0.2627	0.2584	0.2669	0.252	0.2787	0.002066	0.01131	4.31%	15.13%
12.5		4	0.2702	0.2568	0.2835	0.2387	0.3193	0.006544	0.03584	13.27%	12.71%
25		4	0.247	0.1962	0.2978	0.1453	0.436	0.02481	0.1359	55.03%	20.19%
50		4	0.1793	0.1581	0.2006	0.1047	0.238	0.01038	0.05686	31.71%	42.06%
100		4	0.3628	0.3325	0.3931	0.2713	0.4507	0.01481	0.08111	22.35%	-17.23%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	0.9333	1
6.25		0.8667	0.9333	0.8	0.9333
12.5		0.8	0.8667	0.8	0.9333
25		0.6	0.8667	0.5333	1
50		0.7333	0.8	0.6	0.8
100		1	0.9333	1	0.8667

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3573	0.324	0.2753	0.2813
6.25		0.26	0.26	0.252	0.2787
12.5		0.2387	0.2493	0.2733	0.3193
25		0.1453	0.256	0.1507	0.436
50		0.204	0.238	0.1047	0.1707
100		0.4507	0.322	0.4073	0.2713

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	16-8036-7043	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 13:52	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	07-1818-8141	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	11-8299-3719	**Code:**	VCF1110333cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 03:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	81h (5.2 °C)	**Station:**	MO-OXN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	39.65%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	0.9187	2.407	0.1227	0.4582	Non-Significant Effect
		12.5	0.7716	2.407	0.1227	0.5252	Non-Significant Effect
		25	1.226	2.407	0.1227	0.3267	Non-Significant Effect
		50*	2.553	2.407	0.1227	0.0378	Significant Effect
		100	-1.046	2.407	0.1227	0.9848	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3095	0.25 - NL	Yes	Result Within Limits
PMSD	0.3965	0.12 - 0.3	Yes	Result Above Limit

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.963	2.802	0.0226	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.07583795	0.01516759	5	2.918	0.0422	Significant Effect
Error	0.09354988	0.005197216	18			
Total	0.1693878	0.02036481	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	14.14	15.09	0.0147	Equal Variances
Variances	Mod Levene Equality of Variance	2.463	4.248	0.0722	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9366		0.1366	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1093	0.2056	0.6691	Normal Distribution
Distribution	D'Agostino Skewness	1.803	2.576	0.0714	Normal Distribution
Distribution	D'Agostino Kurtosis	1.931	2.576	0.0535	Normal Distribution
Distribution	D'Agostino Omnibus	6.978	9.21	0.0305	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3095	0.2948	0.3242	0.2753	0.3573	0.007159	0.03855	12.46%	0.0%
6.25		4	0.2627	0.2584	0.267	0.252	0.2787	0.002101	0.01131	4.31%	15.13%
12.5		4	0.2702	0.2565	0.2838	0.2387	0.3193	0.006655	0.03584	13.27%	12.71%
25		4	0.247	0.1953	0.2987	0.1453	0.436	0.02524	0.1359	55.03%	20.19%
50		4	0.1793	0.1577	0.201	0.1047	0.238	0.01056	0.05686	31.71%	42.06%
100		4	0.3628	0.332	0.3937	0.2713	0.4507	0.01506	0.08111	22.35%	-17.23%

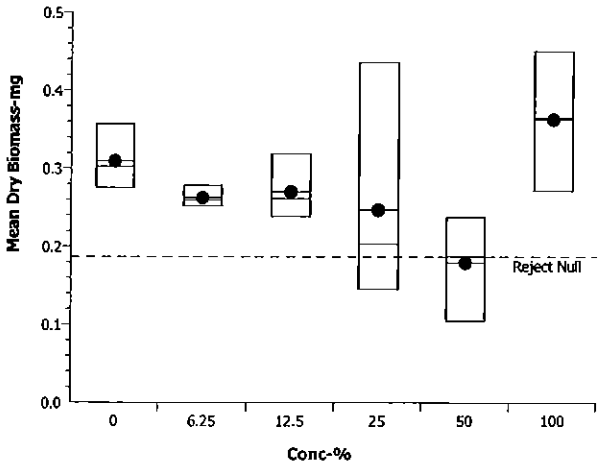
Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

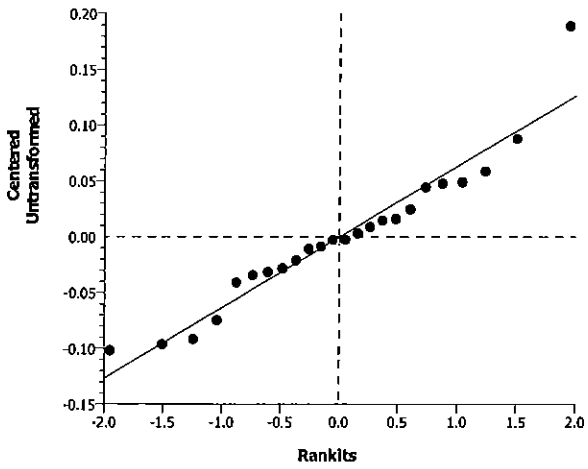
Analysis ID:	16-8036-7043	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 13:52	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3573	0.324	0.2753	0.2813
6.25		0.26	0.26	0.252	0.2787
12.5		0.2387	0.2493	0.2733	0.3193
25		0.1453	0.256	0.1507	0.436
50		0.204	0.238	0.1047	0.1707
100		0.4507	0.322	0.4073	0.2713

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	02-2031-9207	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 13:50	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	07-1818-8141	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	11-8299-3719	**Code:**	VCF1110333cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 03:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	81h (5.2 °C)	**Station:**	MO-OXN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	16.0%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	1.375	2.407	0.2532	0.2703	Non-Significant Effect
		12.5	1.857	2.407	0.2532	0.1325	Non-Significant Effect
		25*	2.755	2.407	0.2532	0.0254	Significant Effect
		50*	3.265	2.407	0.2532	0.0089	Significant Effect
		100	0.2677	2.407	0.2532	0.7427	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.702	2.802	0.0781	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.3784761	0.07569522	5	3.422	0.0239	Significant Effect
Error	0.3981856	0.02212142	18			
Total	0.7766618	0.09781665	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	7.694	15.09	0.1739	Equal Variances
Variances	Mod Levene Equality of Variance	3.722	4.248	0.0173	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9492		0.2597	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.15	0.2056	0.1735	Normal Distribution
Distribution	D'Agostino Skewness	0.7277	2.576	0.4668	Normal Distribution
Distribution	D'Agostino Kurtosis	1.334	2.576	0.1821	Normal Distribution
Distribution	D'Agostino Omnibus	2.31	9.21	0.3151	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	02-2031-9207	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 13:50	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	0.0%
6.25		4	0.8833	0.8591	0.9076	0.8	0.9333	0.01185	0.06383	7.23%	8.62%
12.5		4	0.85	0.8257	0.8743	0.8	0.9333	0.01185	0.06383	7.51%	12.07%
25		4	0.75	0.6662	0.8338	0.5333	1	0.0409	0.2203	29.37%	22.41%
50		4	0.7333	0.6975	0.7692	0.6	0.8	0.01751	0.09428	12.86%	24.14%
100		4	0.95	0.9257	0.9743	0.8667	1	0.01185	0.06383	6.72%	1.72%

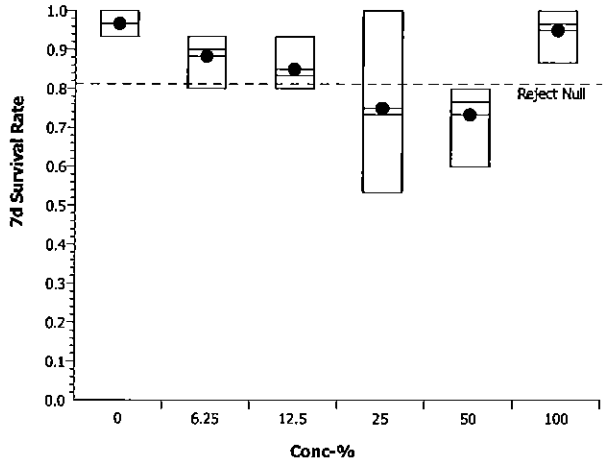
Angular (Corrected) Transformed Summary

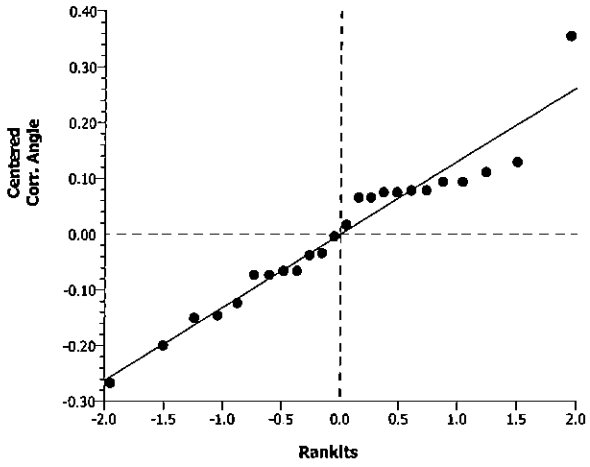
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	0.0%
6.25		4	1.231	1.194	1.268	1.107	1.31	0.01821	0.09809	7.97%	10.51%
12.5		4	1.18	1.144	1.217	1.107	1.31	0.01785	0.09611	8.14%	14.2%
25		4	1.086	0.976	1.196	0.8188	1.441	0.0536	0.2887	26.59%	21.06%
50		4	1.032	0.9925	1.072	0.8861	1.107	0.01936	0.1042	10.1%	24.96%
100		4	1.347	1.302	1.392	1.197	1.441	0.02189	0.1179	8.75%	2.05%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	0.9333	1
6.25		0.8667	0.9333	0.8	0.9333
12.5		0.8	0.8667	0.8	0.9333
25		0.6	0.8667	0.5333	1
50		0.7333	0.8	0.6	0.8
100		1	0.9333	1	0.8667

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	17-1777-4456	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 13:52	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	07-1818-8141	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:05	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	11-8299-3719	Code:	VCF1110333cf	Client:	VCWPD
Sample Date:	30 Oct-10 03:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	81h (5.2 °C)	Station:	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3095	0.25 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	2.245	0.9868	N/A	44.54	N/A	101.3
IC10	4.49	1.974	N/A	22.27	N/A	50.67
IC15	24.93	N/A	N/A	4.012	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3095	0.2753	0.3573	0.007039	0.03855	12.46%	0.0%
6.25		4	0.2627	0.252	0.2787	0.002066	0.01131	4.31%	15.13%
12.5		4	0.2702	0.2387	0.3193	0.006544	0.03584	13.27%	12.71%
25		4	0.247	0.1453	0.436	0.02481	0.1359	55.03%	20.19%
50		4	0.1793	0.1047	0.238	0.01038	0.05686	31.71%	42.06%
100		4	0.3628	0.2713	0.4507	0.01481	0.08111	22.35%	-17.23%

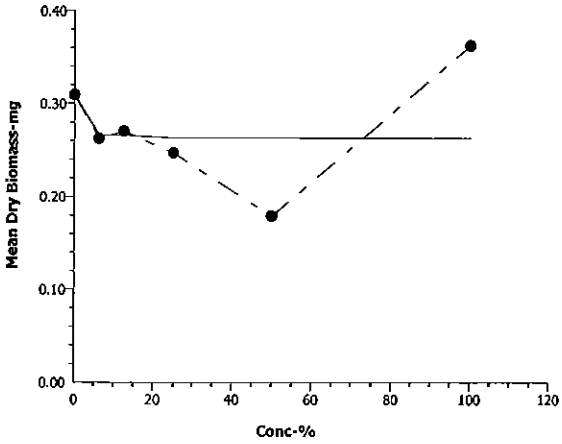
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3573	0.324	0.2753	0.2813
6.25		0.26	0.26	0.252	0.2787
12.5		0.2387	0.2493	0.2733	0.3193
25		0.1453	0.256	0.1507	0.436
50		0.204	0.238	0.1047	0.1707
100		0.4507	0.322	0.4073	0.2713

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	17-1777-4456	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 13:52	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-9298-7861	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 13:50	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	07-1818-8141	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:05	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	11-8299-3719	Code:	VCF1110333cf	Client:	VCWPD
Sample Date:	30 Oct-10 03:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	81h (5.2 °C)	Station:	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.702	2.802	0.0781	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	3.625	1.237	14.83	27.59	6.745	80.86
EC10	8.75	1.574	69.61	11.43	1.437	63.55
EC15	21.61	3.702	N/A	4.628	N/A	27.01
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9667	0.9333	1	0.007027	0.03849	3.98%	0.0%	58	60
6.25		4	0.8833	0.8	0.9333	0.01165	0.06383	7.23%	8.62%	53	60
12.5		4	0.85	0.8	0.9333	0.01165	0.06383	7.51%	12.07%	51	60
25		4	0.75	0.5333	1	0.04022	0.2203	29.37%	22.41%	45	60
50		4	0.7333	0.6	0.8	0.01721	0.09428	12.86%	24.14%	44	60
100		4	0.95	0.8667	1	0.01165	0.06383	6.72%	1.72%	57	60

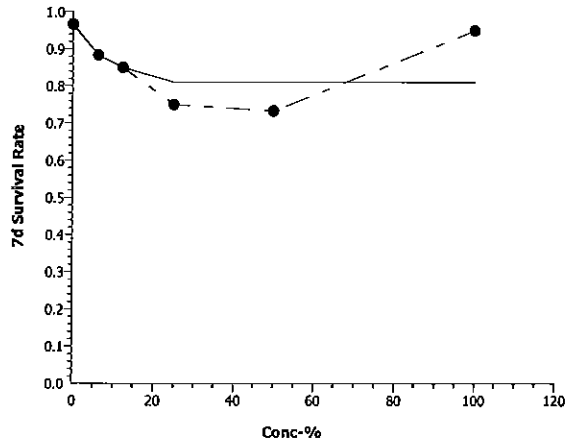
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	0.9333	1
6.25		0.8667	0.9333	0.8	0.9333
12.5		0.8	0.8667	0.8	0.9333
25		0.6	0.8667	0.5333	1
50		0.7333	0.8	0.6	0.8
100		1	0.9333	1	0.8667

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-9298-7861	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 13:50	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	07-1818-8141	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	11-8299-3719	**Code:**	VCF1110333cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 03:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	81h (5.2 °C)	**Station:**	MO-OXN		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	28	28	28	28	28	0	0	0.0%	0
Overall		16	45.31			28	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	288.9	287.7	290	285	294	0.5595	3.357	1.16%	0
12.5		8	253.9	229.3	278.4	75	291	12.1	72.63	28.61%	0
25		8	250.4	247.4	253.3	241	267	1.45	8.7	3.48%	0
50		8	186.3	185.3	187.2	183	191	0.4608	2.765	1.48%	0
100		8	60.88	59.26	62.49	56	69	0.794	4.764	7.83%	0
Overall		48	228.5			56	342				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.992			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	50	50	50	50	50	0	0	0.0%	0
Overall		16	71.94			50	98				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		28	28	28	28	28	28	28	28

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		293	287	291	286	287	285	288	294
12.5		281	288	291	270	275	277	75	274
25		251	259	267	241	245	248	249	243
50		188	191	188	183	185	187	185	183
100		62	67	69	56	58	59	59	57

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		50	50	50	50	50	50	50	50

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-OXN
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.333

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

f.o.r. Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	08-0871-7564	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-5867-4216	**Code:**	VCF1110333cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 03:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	81h (5.2 °C)	**Station:**	MO-OXN		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
00-1497-8614	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
00-9659-9719	Reproduction	100	>100	N/A	12.97%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
16-5560-9863	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
05-6022-0693	Reproduction	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
00-1497-8614	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
16-5560-9863	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
00-9659-9719	Reproduction	Control Resp	21	15 - NL	Yes	Result Within Limits
05-6022-0693	Reproduction	Control Resp	21	15 - NL	Yes	Result Within Limits
00-9659-9719	Reproduction	PMSD	0.1297	0.13 - 0.47	Yes	Result Below Limit

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21	19.54	22.46	14	28	0.7149	3.916	18.65%	0.0%
6.25		10	22.8	21.89	23.71	20	26	0.4456	2.44	10.7%	-8.57%
12.5		10	21.7	21.09	22.31	18	24	0.2988	1.636	7.54%	-3.33%
25		10	22.8	21.6	24	19	30	0.5888	3.225	14.14%	-8.57%
50		10	21.8	21.2	22.4	19	24	0.2956	1.619	7.43%	-3.81%
100		10	22.2	21.32	23.08	19	28	0.4286	2.348	10.57%	-5.71%

Ceriodaphnia 7-d Survival and Reproduction Test **Aquatic Bioassay & Consulting Labs, Inc.**

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	26	21	22	21	21	28	20	18	19	14
6.25		25	21	22	25	20	20	20	26	24	25
12.5		22	22	24	22	22	22	22	23	20	18
25		25	24	23	19	20	30	20	22	24	21
50		24	23	22	22	23	20	19	23	20	22
100		28	21	21	22	19	22	23	21	23	22

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-9659-9719	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 15:13	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	08-0871-7564	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:05	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-5867-4216	Code:	VCF1110333cc	Client:	VCWPD
Sample Date:	30 Oct-10 03:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	81h (5.2 °C)	Station:	MO-OXN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	12.97%

Dunnett's Multiple Comparison Test

Control	vs Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control	6.25	-1.512	2.289	2.725	0.9970	Non-Significant Effect
	12.5	-0.5881	2.289	2.725	0.9522	Non-Significant Effect
	25	-1.512	2.289	2.725	0.9970	Non-Significant Effect
	50	-0.6721	2.289	2.725	0.9613	Non-Significant Effect
	100	-1.008	2.289	2.725	0.9850	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	21	15 - NL	Yes	Result Within Limits
PMSD	0.1297	0.13 - 0.47	Yes	Result Below Limit

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.828	3.2	0.2098	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	24.35	4.87	5	0.6875	0.6350	Non-Significant Effect
Error	382.5	7.083333	54			
Total	406.85	11.95333	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	10.65	15.09	0.0588	Equal Variances
Variances	Mod Levene Equality of Variance	1.583	3.377	0.1806	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9496		0.0149	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1215	0.1331	0.0278	Normal Distribution
Distribution	D'Agostino Skewness	1.614	2.576	0.1066	Normal Distribution
Distribution	D'Agostino Kurtosis	1.992	2.576	0.0463	Normal Distribution
Distribution	D'Agostino Omnibus	6.574	9.21	0.0374	Normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21	19.51	22.49	14	28	0.7271	3.916	18.65%	0.0%
6.25		10	22.8	21.87	23.73	20	26	0.4532	2.44	10.7%	-8.57%
12.5		10	21.7	21.08	22.32	18	24	0.3039	1.636	7.54%	-3.33%
25		10	22.8	21.57	24.03	19	30	0.5988	3.225	14.14%	-8.57%
50		10	21.8	21.18	22.42	19	24	0.3007	1.619	7.43%	-3.81%
100		10	22.2	21.31	23.09	19	28	0.4359	2.348	10.57%	-5.71%

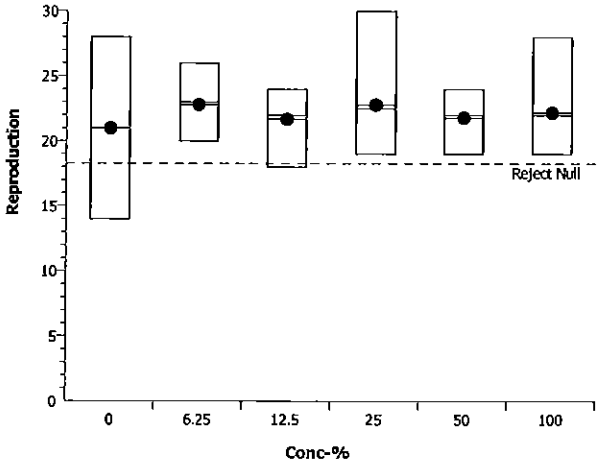
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

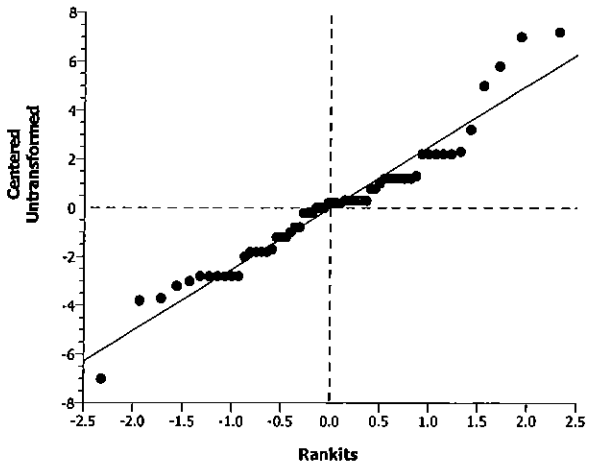
Analysis ID:	00-9659-9719	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:13	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	26	21	22	21	21	28	20	18	19	14
6.25		25	21	22	25	20	20	20	26	24	25
12.5		22	22	24	22	22	22	22	23	20	18
25		25	24	23	19	20	30	20	22	24	21
50		24	23	22	22	23	20	19	23	20	22
100		28	21	21	22	19	22	23	21	23	22

Graphics





Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-6022-0693	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:13	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	08-0871-7564	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-5867-4216	**Code:**	VCF1110333cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 03:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	81h (5.2 °C)	**Station:**	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	8144900	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	21	15 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.828	3.2	0.2098	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21	14	28	0.7149	3.916	18.65%	0.0%
6.25		10	22.8	20	26	0.4456	2.44	10.7%	-8.57%
12.5		10	21.7	18	24	0.2988	1.636	7.54%	-3.33%
25		10	22.8	19	30	0.5888	3.225	14.14%	-8.57%
50		10	21.8	19	24	0.2956	1.619	7.43%	-3.81%
100		10	22.2	19	28	0.4286	2.348	10.57%	-5.71%

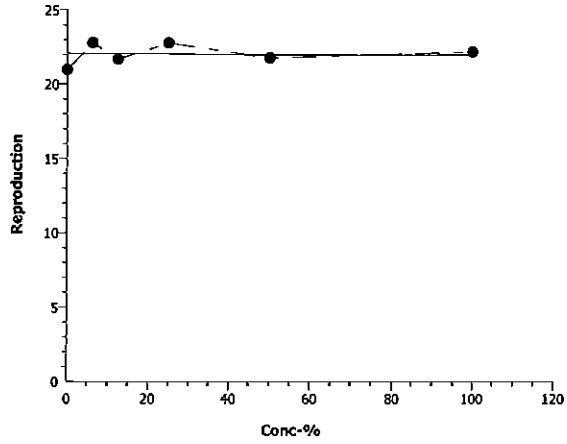
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	26	21	22	21	21	28	20	18	19	14
6.25		25	21	22	25	20	20	20	26	24	25
12.5		22	22	24	22	22	22	22	23	20	18
25		25	24	23	19	20	30	20	22	24	21
50		24	23	22	22	23	20	19	23	20	22
100		28	21	21	22	19	22	23	21	23	22

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	05-6022-0693	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:13	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	16-5560-9863	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 15:13	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	08-0871-7564	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:05	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	05-5867-4216	Code:	VCF1110333cc	Client:	VCWPD
Sample Date:	30 Oct-10 03:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	81h (5.2 °C)	Station:	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	8144900	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

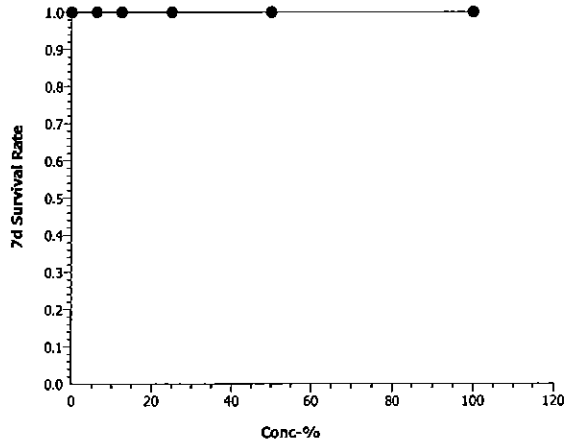
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	16-5560-9863	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:13	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-1497-8614	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:13	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	08-0871-7564	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	05-5867-4216	**Code:**	VCF1110333cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 03:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	81h (5.2 °C)	**Station:**	MO-OXN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

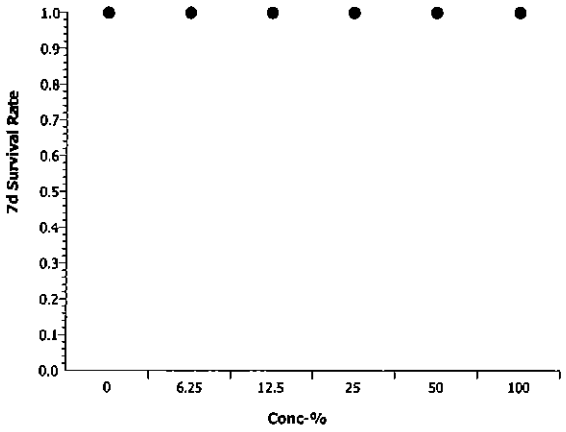
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-1497-8614	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:13	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	08-0871-7564	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:05	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h

Sample ID:	05-5867-4216	Code:	VCF1110333cc	Client:	VCWPD
Sample Date:	30 Oct-10 03:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	81h (5.2 °C)	Station:	MO-OXN		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	28	28	28	28	28	0	0	0.0%	0
Overall		16	45.31			28	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	288.9	287.7	290	285	294	0.5595	3.357	1.16%	0
12.5		8	253.9	229.3	278.4	75	291	12.1	72.63	28.61%	0
25		8	250.4	247.4	253.3	241	267	1.45	8.7	3.48%	0
50		8	186.3	185.3	187.2	183	191	0.4608	2.765	1.48%	0
100		8	60.88	59.26	62.49	56	69	0.794	4.764	7.83%	0
Overall		48	228.5			56	342				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.992			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	50	50	50	50	50	0	0	0.0%	0
Overall		16	71.94			50	98				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		28	28	28	28	28	28	28	28

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		293	287	291	286	287	285	288	294
12.5		281	288	291	270	275	277	75	274
25		251	259	267	241	245	248	249	243
50		188	191	188	183	185	187	185	183
100		62	67	69	56	58	59	59	57

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		50	50	50	50	50	50	50	50

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-OXN
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.333

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	03-7400-9681	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:16	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	09-0264-5592	**Code:**	VCF1110333s	**Client:**	VCWPD
Sample Date:	30 Oct-10 03:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	82h (5.2 °C)	**Station:**	MO-OXN		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
06-8681-4711	Cell Density	100	>100	N/A	13.34%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
06-7584-5687	Cell Density	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
06-7584-5687	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
06-8681-4711	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
06-7584-5687	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
06-8681-4711	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
06-8681-4711	Cell Density	PMSD	0.1334	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.086E+6	1.136E+6	1.019E+6	1.179E+6	1.219E+4	6.675E+4	6.01%	0.0%
6.25		4	1.368E+6	1.331E+6	1.405E+6	1.266E+6	1.481E+6	1.804E+4	9.882E+4	7.23%	-23.14%
12.5		4	1.480E+6	1.448E+6	1.512E+6	1.369E+6	1.566E+6	1.575E+4	8.625E+4	5.83%	-33.22%
25		4	1.472E+6	1.436E+6	1.508E+6	1.366E+6	1.599E+6	1.752E+4	9.593E+4	6.52%	-32.52%
50		4	1.513E+6	1.494E+6	1.532E+6	1.463E+6	1.569E+6	9.293E+3	5.090E+4	3.37%	-36.19%
100		4	1.366E+6	1.325E+6	1.406E+6	1.308E+6	1.530E+6	2.003E+4	1.097E+5	8.04%	-22.93%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.307E+6	1.481E+6	1.417E+6	1.266E+6
12.5		1.369E+6	1.458E+6	1.526E+6	1.566E+6
25		1.458E+6	1.599E+6	1.366E+6	1.465E+6
50		1.477E+6	1.569E+6	1.542E+6	1.463E+6
100		1.308E+6	1.530E+6	1.316E+6	1.308E+6

CETIS Analytical Report

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	06-8681-4711	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	03-7400-9681	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:16	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	09-0264-5592	**Code:**	VCF1110333s	**Client:**	VCWPD
Sample Date:	30 Oct-10 03:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	82h (5.2 °C)	**Station:**	MO-OXN		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	13.34%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-4.174	2.407	148200	1.0000	Non-Significant Effect
		12.5	-5.993	2.407	148200	1.0000	Non-Significant Effect
		25	-5.867	2.407	148200	1.0000	Non-Significant Effect
		50	-6.529	2.407	148200	1.0000	Non-Significant Effect
		100	-4.137	2.407	148200	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1334	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.135	2.802	0.6129	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	4.350285E+11	87005700000	5	11.47	<0.0001	Significant Effect
Error	1.36482E+11	7582333000	18			
Total	5.715105E+11	94588040000	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.9	15.09	0.8628	Equal Variances
Variances	Mod Levene Equality of Variance	0.2533	4.248	0.9326	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9613		0.4656	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1148	0.2056	0.5786	Normal Distribution
Distribution	D'Agostino Skewness	0.9307	2.576	0.3520	Normal Distribution
Distribution	D'Agostino Kurtosis	0.6463	2.576	0.5181	Normal Distribution
Distribution	D'Agostino Omnibus	1.284	9.21	0.5262	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.085E+6	1.136E+6	1.019E+6	1.179E+6	1.239E+4	6.674E+4	6.01%	0.0%
6.25		4	1.368E+6	1.330E+6	1.405E+6	1.266E+6	1.481E+6	1.835E+4	9.882E+4	7.23%	-23.14%
12.5		4	1.480E+6	1.447E+6	1.513E+6	1.369E+6	1.566E+6	1.602E+4	8.625E+4	5.83%	-33.22%
25		4	1.472E+6	1.436E+6	1.508E+6	1.366E+6	1.599E+6	1.781E+4	9.593E+4	6.52%	-32.52%
50		4	1.513E+6	1.493E+6	1.532E+6	1.463E+6	1.569E+6	9.452E+3	5.090E+4	3.37%	-36.19%
100		4	1.366E+6	1.324E+6	1.407E+6	1.308E+6	1.530E+6	2.038E+4	1.097E+5	8.04%	-22.93%

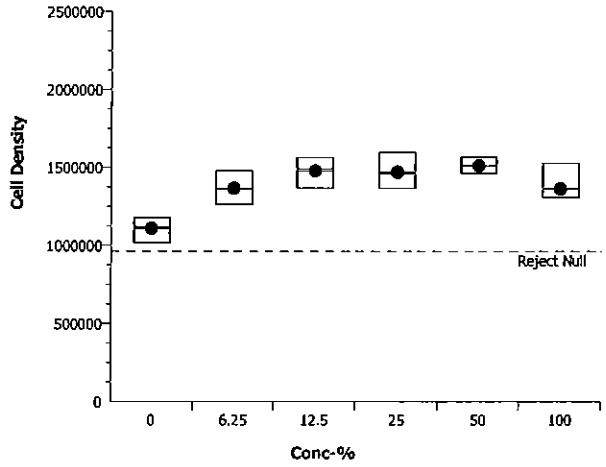
Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

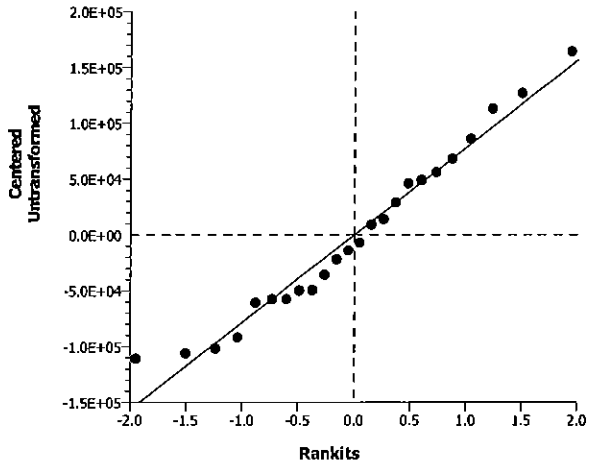
Analysis ID:	06-8681-4711	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.307E+6	1.481E+6	1.417E+6	1.266E+6
12.5		1.369E+6	1.458E+6	1.526E+6	1.566E+6
25		1.458E+6	1.599E+6	1.366E+6	1.465E+6
50		1.477E+6	1.569E+6	1.542E+6	1.463E+6
100		1.308E+6	1.530E+6	1.316E+6	1.308E+6

Graphics





CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	06-7584-5687	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:32	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	03-7400-9681	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:16	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	09-0264-5592	**Code:**	VCF1110333s	**Client:**	VCWPD
Sample Date:	30 Oct-10 03:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	82h (5.2 °C)	**Station:**	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2895625	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.135	2.802	0.6129	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.019E+6	1.179E+6	1.219E+4	6.674E+4	6.01%	0.0%
6.25		4	1.368E+6	1.266E+6	1.481E+6	1.804E+4	9.882E+4	7.23%	-23.14%
12.5		4	1.480E+6	1.369E+6	1.566E+6	1.575E+4	8.625E+4	5.83%	-33.22%
25		4	1.472E+6	1.366E+6	1.599E+6	1.752E+4	9.593E+4	6.52%	-32.52%
50		4	1.513E+6	1.463E+6	1.569E+6	9.293E+3	5.090E+4	3.37%	-36.19%
100		4	1.366E+6	1.308E+6	1.530E+6	2.003E+4	1.097E+5	8.04%	-22.93%

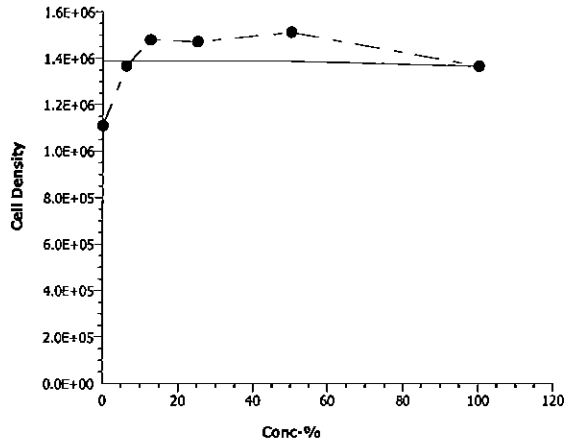
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.307E+6	1.481E+6	1.417E+6	1.266E+6
12.5		1.369E+6	1.458E+6	1.526E+6	1.566E+6
25		1.458E+6	1.599E+6	1.366E+6	1.465E+6
50		1.477E+6	1.569E+6	1.542E+6	1.463E+6
100		1.308E+6	1.530E+6	1.316E+6	1.308E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	06-7584-5687	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:32	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	03-7400-9681	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:16	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	09-0264-5592	**Code:**	VCF1110333s	**Client:**	VCWPD
Sample Date:	30 Oct-10 03:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	82h (5.2 °C)	**Station:**	MO-OXN		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	63			63	63	0	0	0.0%	0
12.5		1	71			71	71	0	0	0.0%	0
25		1	58			58	58	0	0	0.0%	0
50		1	60			60	60	0	0	0.0%	0
100		1	20			20	20	0	0	0.0%	0
Overall		6	56.83			20	71				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	412.6	408	417.2	400	436	2.284	13.7	3.32%	0
12.5		5	378.8	378.1	379.5	376	381	0.3206	1.924	0.51%	0
25		5	359.8	359.1	360.5	357	362	0.3613	2.168	0.6%	0
50		5	333.4	331.9	334.9	330	341	0.7509	4.506	1.35%	0
100		5	235.4	234.4	236.4	232	239	0.5083	3.05	1.3%	0
Overall		30	359.4			232	449				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	99			99	99	0	0	0.0%	0
12.5		1	107			107	107	0	0	0.0%	0
25		1	90			90	90	0	0	0.0%	0
50		1	90			90	90	0	0	0.0%	0
100		1	50			50	50	0	0	0.0%	0
Overall		6	91.83			50	115				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		63
12.5		71
25		58
50		60
100		20

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		400	407	410	410	436
12.5		378	376	379	380	381
25		361	357	358	362	361
50		333	333	330	330	341
100		232	233	235	238	239

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		99
12.5		107
25		90
50		90
100		50

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-FIL
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.334

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	16-0750-1704	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:06	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	17-1363-7973	**Code:**	VCF1110334cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
00-2379-5370	7d Survival Rate	100	>100	N/A	8.37%	1	Dunnett's Multiple Comparison Test
03-2635-5026	Mean Dry Biomass-mg	100	>100	N/A	13.75%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
13-8857-2343	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
09-4178-6261	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
00-2379-5370	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
13-8857-2343	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
03-2635-5026	Mean Dry Biomass-mg	Control Resp	0.3442	0.25 - NL	Yes	Result Within Limits
09-4178-6261	Mean Dry Biomass-mg	Control Resp	0.3442	0.25 - NL	Yes	Result Within Limits
03-2635-5026	Mean Dry Biomass-mg	PMSD	0.1375	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9418	0.9916	0.8667	1	0.01217	0.06667	6.9%	0.0%
6.25		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-1.72%
12.5		4	0.9333	0.9046	0.9621	0.8667	1	0.01405	0.07698	8.25%	3.45%
25		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-1.72%
50		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	0.0%
100		4	1	1	1	1	1	0	0	0.0%	-3.45%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3442	0.3372	0.3512	0.3193	0.3633	0.003416	0.01871	5.44%	0.0%
6.25		4	0.455	0.4476	0.4624	0.4293	0.4767	0.00363	0.01988	4.37%	-32.2%
12.5		4	0.394	0.3775	0.4105	0.3367	0.4313	0.008061	0.04415	11.21%	-14.48%
25		4	0.4673	0.458	0.4767	0.436	0.4973	0.004583	0.0251	5.37%	-35.79%
50		4	0.4748	0.4645	0.4852	0.4347	0.498	0.005074	0.02779	5.85%	-37.97%
100		4	0.5227	0.514	0.5314	0.4893	0.54	0.004254	0.0233	4.46%	-51.86%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8667	1	1	1
6.25		0.9333	1	1	1
12.5		1	0.8667	0.8667	1
25		1	1	0.9333	1
50		0.9333	1	1	0.9333
100		1	1	1	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3193	0.342	0.3633	0.352
6.25		0.4767	0.4293	0.462	0.452
12.5		0.426	0.3367	0.382	0.4313
25		0.466	0.4973	0.47	0.436
50		0.4867	0.498	0.48	0.4347
100		0.4893	0.524	0.5373	0.54

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	03-2635-5026	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:03	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	16-0750-1704	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:06	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	17-1363-7973	**Code:**	VCF1110334cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	13.75%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-5.636	2.407	0.04733	1.0000	Non-Significant Effect
		12.5	-2.534	2.407	0.04733	0.9998	Non-Significant Effect
		25	-6.263	2.407	0.04733	1.0000	Non-Significant Effect
		50	-6.645	2.407	0.04733	1.0000	Non-Significant Effect
		100	-9.077	2.407	0.04733	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3442	0.25 - NL	Yes	Result Within Limits
PMSD	0.1375	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.33	2.802	0.3268	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.08106111	0.01621222	5	20.96	<0.0001	Significant Effect
Error	0.01392111	0.0007733951	18			
Total	0.09498222	0.01698562	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	2.919	15.09	0.7124	Equal Variances
Variances	Mod Levene Equality of Variance	0.8663	4.248	0.5225	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9528		0.3111	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1598	0.2056	0.1140	Normal Distribution
Distribution	D'Agostino Skewness	1.398	2.576	0.1622	Normal Distribution
Distribution	D'Agostino Kurtosis	0.004819	2.576	0.9962	Normal Distribution
Distribution	D'Agostino Omnibus	1.953	9.21	0.3766	Normal Distribution

Mean Dry Biomass-mg Summary

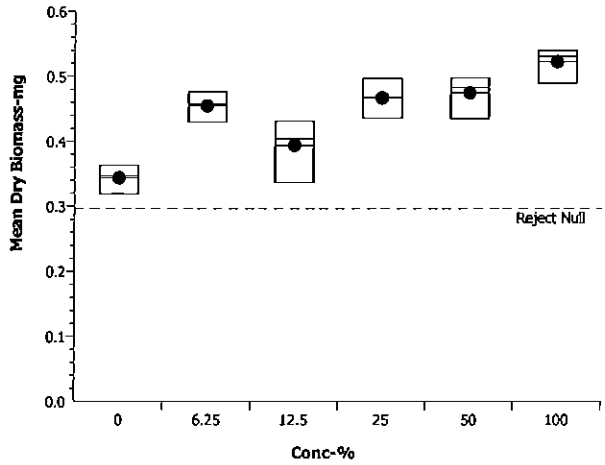
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3442	0.3371	0.3513	0.3193	0.3633	0.003474	0.01871	5.44%	0.0%
6.25		4	0.455	0.4474	0.4626	0.4293	0.4767	0.003693	0.01988	4.37%	-32.2%
12.5		4	0.394	0.3772	0.4108	0.3367	0.4313	0.008199	0.04415	11.21%	-14.48%
25		4	0.4673	0.4578	0.4769	0.436	0.4973	0.004662	0.0251	5.37%	-35.79%
50		4	0.4748	0.4643	0.4854	0.4347	0.498	0.00516	0.02779	5.85%	-37.97%
100		4	0.5227	0.5138	0.5315	0.4893	0.54	0.004326	0.0233	4.46%	-51.86%

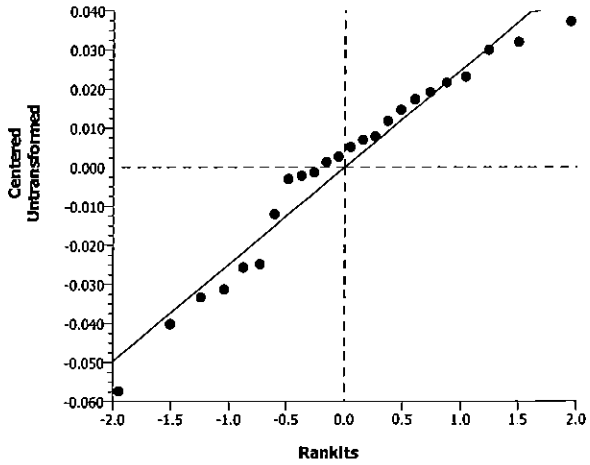
Analysis ID:	03-2635-5026	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:03	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3193	0.342	0.3633	0.352
6.25		0.4767	0.4293	0.462	0.452
12.5		0.426	0.3367	0.382	0.4313
25		0.466	0.4973	0.47	0.436
50		0.4867	0.498	0.48	0.4347
100		0.4893	0.524	0.5373	0.54

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-2379-5370	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:03	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	16-0750-1704	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:06	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	17-1363-7973	**Code:**	VCF1110334cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	8.37%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-0.4394	2.407	0.1543	0.9308	Non-Significant Effect
		12.5	0.9532	2.407	0.1543	0.4427	Non-Significant Effect
		25	-0.4394	2.407	0.1543	0.9308	Non-Significant Effect
		50	0.07437	2.407	0.1543	0.8105	Non-Significant Effect
		100	-0.9532	2.407	0.1543	0.9804	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.286	2.802	0.3800	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.03451132	0.006902263	5	0.8404	0.5385	Non-Significant Effect
Error	0.1478312	0.008212846	18			
Total	0.1823425	0.01511511	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	1.755	4.248	0.1732	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9204		0.0596	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.2083	0.2056	0.0084	Non-normal Distribution
Distribution	D'Agostino Skewness	1.429	2.576	0.1529	Normal Distribution
Distribution	D'Agostino Kurtosis	0.07967	2.576	0.9365	Normal Distribution
Distribution	D'Agostino Omnibus	2.049	9.21	0.3589	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-2379-5370	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:03	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9413	0.992	0.8667	1	0.01238	0.06667	6.9%	0.0%
6.25		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-1.72%
12.5		4	0.9333	0.9041	0.9626	0.8667	1	0.01429	0.07698	8.25%	3.45%
25		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-1.72%
50		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	0.0%
100		4	1	1	1	1	1	0	0	0.0%	-3.45%

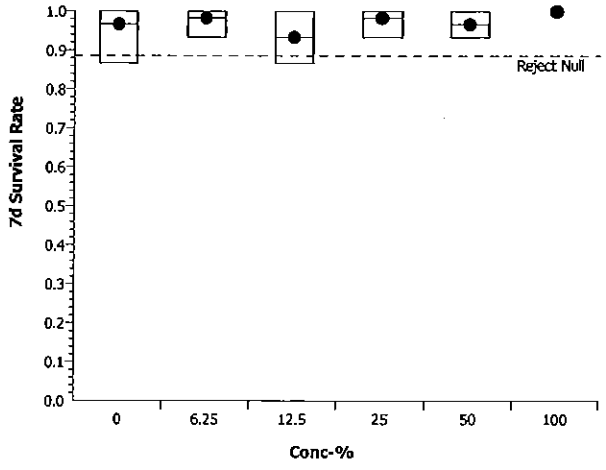
Angular (Corrected) Transformed Summary

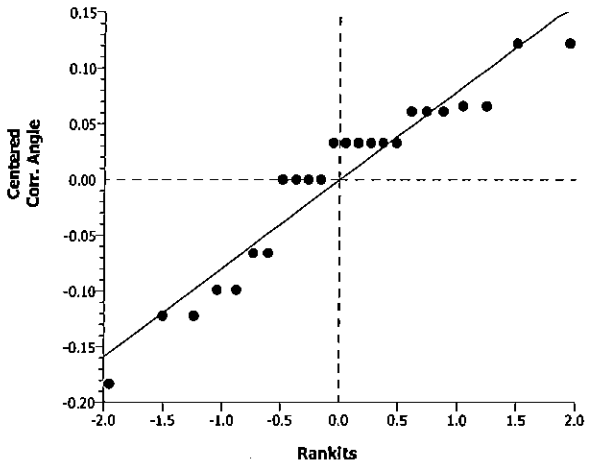
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.38	1.334	1.427	1.197	1.441	0.02269	0.1222	8.85%	0.0%
6.25		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-2.04%
12.5		4	1.319	1.266	1.373	1.197	1.441	0.0262	0.1411	10.69%	4.43%
25		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-2.04%
50		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	0.35%
100		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-4.43%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8667	1	1	1
6.25		0.9333	1	1	1
12.5		1	0.8667	0.8667	1
25		1	1	0.9333	1
50		0.9333	1	1	0.9333
100		1	1	1	1

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-4178-6261	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:03	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	16-0750-1704	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:06	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	17-1363-7973	**Code:**	VCF1110334cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3442	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.33	2.802	0.3268	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3442	0.3193	0.3633	0.003416	0.01871	5.44%	0.0%
6.25		4	0.455	0.4293	0.4767	0.00363	0.01988	4.37%	-32.2%
12.5		4	0.394	0.3367	0.4313	0.008061	0.04415	11.21%	-14.48%
25		4	0.4673	0.436	0.4973	0.004583	0.0251	5.37%	-35.79%
50		4	0.4748	0.4347	0.498	0.005074	0.02779	5.85%	-37.97%
100		4	0.5227	0.4893	0.54	0.004254	0.0233	4.46%	-51.86%

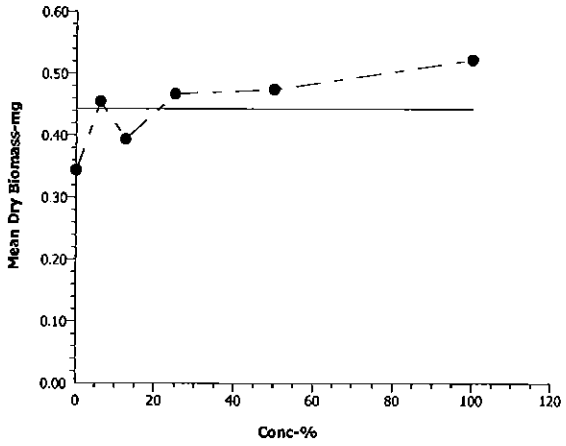
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3193	0.342	0.3633	0.352
6.25		0.4767	0.4293	0.462	0.452
12.5		0.426	0.3367	0.382	0.4313
25		0.466	0.4973	0.47	0.436
50		0.4867	0.498	0.48	0.4347
100		0.4893	0.524	0.5373	0.54

Fathead Minnow 7-d Larval Survival and Growth Test | Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-4178-6261	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:03	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	13-8857-2343	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:03	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	16-0750-1704	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:06	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	17-1363-7973	Code:	VCF1110334cf	Client:	VCWPD
Sample Date:	30 Oct-10 05:30	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.286	2.802	0.3800	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9667	0.8667	1	0.01217	0.06667	6.9%	0.0%	58	60
6.25		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-1.72%	59	60
12.5		4	0.9333	0.8667	1	0.01405	0.07698	8.25%	3.45%	56	60
25		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-1.72%	59	60
50		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	0.0%	58	60
100		4	1	1	1	0	0	0.0%	-3.45%	60	60

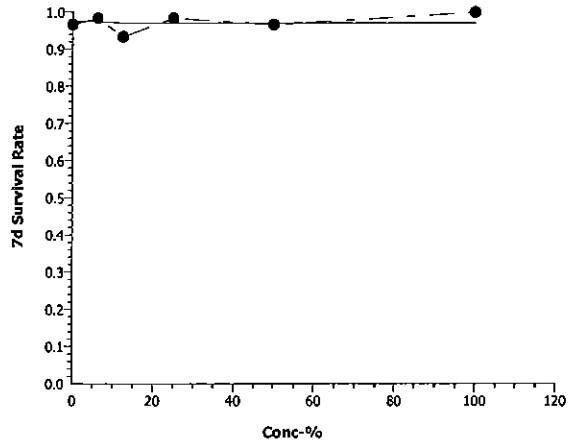
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8667	1	1	1
6.25		0.9333	1	1	1
12.5		1	0.8667	0.8667	1
25		1	1	0.9333	1
50		0.9333	1	1	0.9333
100		1	1	1	1

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-8857-2343	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:03	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	16-0750-1704	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:06	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	17-1363-7973	Code:	VCF1110334cf	Client:	VCWPD
Sample Date:	30 Oct-10 05:30	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-FIL		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	45	45	45	45	45	0	0	0.0%	0
Overall		16	53.81			45	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	290.1	288.4	291.9	285	298	0.8703	5.222	1.8%	0
12.5		8	290.4	288.4	292.3	285	299	0.9509	5.706	1.97%	0
25		8	278.8	277.3	280.2	275	288	0.7387	4.432	1.59%	0
50		8	255	254.2	255.8	251	259	0.3984	2.39	0.94%	0
100		8	212.5	210	215	203	225	1.228	7.368	3.47%	0
Overall		48	276.2			203	342				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	6.95	6.834	7.066	6.4	7.5	0.05704	0.3423	4.93%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.977			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	81	81	81	81	81	0	0	0.0%	0
Overall		16	87.44			81	98				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		45	45	45	45	45	45	45	45

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		298	291	298	288	288	285	285	288
12.5		295	297	299	288	285	286	285	288
25		281	288	281	276	277	275	277	275
50		255	257	259	253	255	255	255	251
100		203	209	211	212	215	220	225	205

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		6.9	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		81	81	81	81	81	81	81	81

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-FIL
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.334

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	21-2120-5618	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:06	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	02-0386-7432	**Code:**	VCF1110334cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
04-0252-0782	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
10-7109-8384	Reproduction	100	>100	N/A	13.92%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
20-8287-8922	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
08-8780-7246	Reproduction	IC5	4.789	2.261	N/A	20.88	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
04-0252-0782	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
20-8287-8922	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
08-8780-7246	Reproduction	Control Resp	23.6	15 - NL	Yes	Result Within Limits
10-7109-8384	Reproduction	Control Resp	23.6	15 - NL	Yes	Result Within Limits
10-7109-8384	Reproduction	PMSD	0.1392	0.13 - 0.47	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	23.6	22.43	24.77	20	30	0.5722	3.134	13.28%	0.0%
6.25		10	21	19.65	22.35	14	25	0.6611	3.621	17.24%	11.02%
12.5		10	21.8	21.2	22.4	20	25	0.2956	1.619	7.43%	7.63%
25		10	20.2	19.24	21.16	16	24	0.4698	2.573	12.74%	14.41%
50		10	23.2	22.22	24.18	21	30	0.4776	2.616	11.28%	1.7%
100		10	24.1	22.32	25.88	19	35	0.8711	4.771	19.8%	-2.12%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	25	23	27	20	20	23	24	21	23	30
6.25		25	16	25	22	20	23	22	23	20	14
12.5		22	21	25	21	22	21	20	24	22	20
25		23	21	18	22	24	20	20	17	16	21
50		22	23	22	23	22	22	30	21	22	25
100		26	21	28	21	20	19	22	24	25	35

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	10-7109-8384	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:28	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	21-2120-5618	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:06	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	02-0386-7432	**Code:**	VCF1110334cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	13.92%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	1.812	2.289	3.285	0.1295	Non-Significant Effect
		12.5	1.254	2.289	3.285	0.3075	Non-Significant Effect
		25*	2.369	2.289	3.285	0.0419	Significant Effect
		50	0.2787	2.289	3.285	0.7377	Non-Significant Effect
		100	-0.3484	2.289	3.285	0.9165	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	23.6	15 - NL	Yes	Result Within Limits
PMSD	0.1392	0.13 - 0.47	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.55	3.2	0.0105	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	120.8833	24.17667	5	2.348	0.0532	Non-Significant Effect
Error	556.1	10.29815	54			
Total	676.9833	34.47482	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	10.62	15.09	0.0596	Equal Variances
Variances	Mod Levene Equality of Variance	1.33	3.377	0.2657	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9624		0.0613	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.0907	0.1331	0.2377	Normal Distribution
Distribution	D'Agostino Skewness	2.378	2.576	0.0174	Normal Distribution
Distribution	D'Agostino Kurtosis	2.305	2.576	0.0211	Normal Distribution
Distribution	D'Agostino Omnibus	10.97	9.21	0.0041	Non-normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	23.6	22.41	24.79	20	30	0.582	3.134	13.28%	0.0%
6.25		10	21	19.62	22.38	14	25	0.6724	3.621	17.24%	11.02%
12.5		10	21.8	21.18	22.42	20	25	0.3007	1.619	7.43%	7.63%
25		10	20.2	19.22	21.18	16	24	0.4779	2.573	12.74%	14.41%
50		10	23.2	22.2	24.2	21	30	0.4858	2.616	11.28%	1.7%
100		10	24.1	22.29	25.91	19	35	0.886	4.771	19.8%	-2.12%

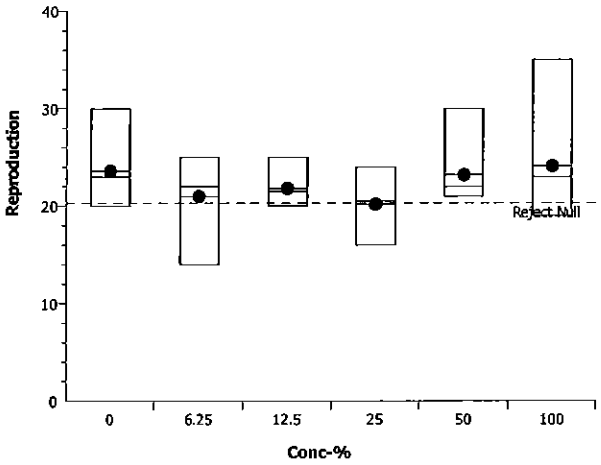
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

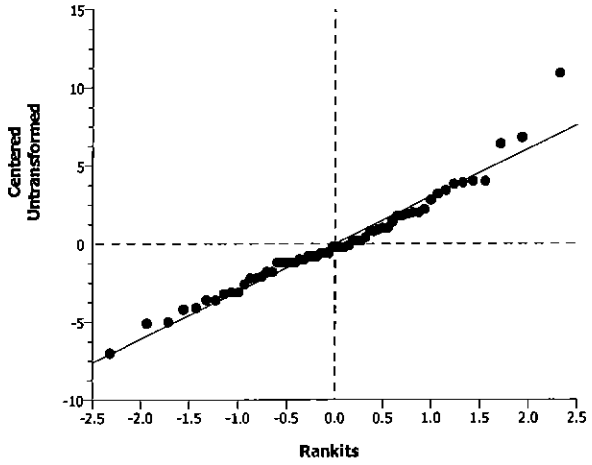
Analysis ID:	10-7109-8384	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:28	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	25	23	27	20	20	23	24	21	23	30
6.25		25	16	25	22	20	23	22	23	20	14
12.5		22	21	25	21	22	21	20	24	22	20
25		23	21	18	22	24	20	20	17	16	21
50		22	23	22	23	22	22	30	21	22	25
100		26	21	28	21	20	19	22	24	25	35

Graphics





Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	08-8780-7246	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	21-2120-5618	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:06	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	02-0386-7432	**Code:**	VCF1110334cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7090379	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	23.6	15 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	4.789	2.261	N/A	20.88	N/A	44.23
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	23.6	20	30	0.5722	3.134	13.28%	0.0%
6.25		10	21	14	25	0.6611	3.621	17.24%	11.02%
12.5		10	21.8	20	25	0.2956	1.619	7.43%	7.63%
25		10	20.2	16	24	0.4698	2.573	12.74%	14.41%
50		10	23.2	21	30	0.4776	2.616	11.28%	1.7%
100		10	24.1	19	35	0.8711	4.771	19.8%	-2.12%

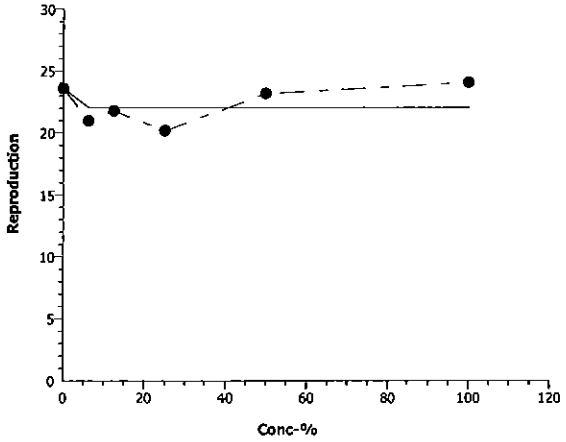
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	25	23	27	20	20	23	24	21	23	30
6.25		25	16	25	22	20	23	22	23	20	14
12.5		22	21	25	21	22	21	20	24	22	20
25		23	21	18	22	24	20	20	17	16	21
50		22	23	22	23	22	22	30	21	22	25
100		26	21	28	21	20	19	22	24	25	35

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	08-8780-7246	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	20-8287-8922	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 15:28	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	21-2120-5618	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:06	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	02-0386-7432	Code:	VCF1110334cc	Client:	VCWPD
Sample Date:	30 Oct-10 05:30	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7090379	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

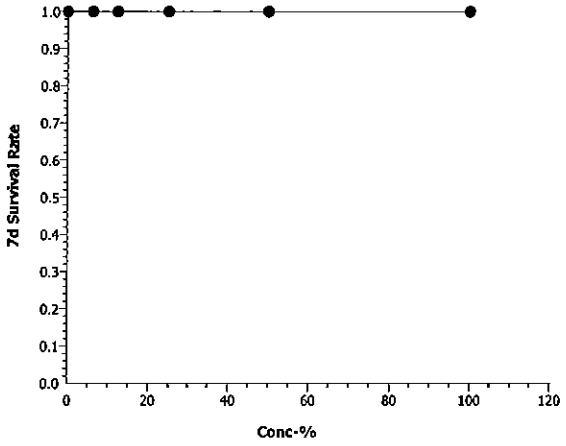
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	20-8287-8922	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-0252-0782	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:28	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	21-2120-5618	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:06	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	02-0386-7432	**Code:**	VCF1110334cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

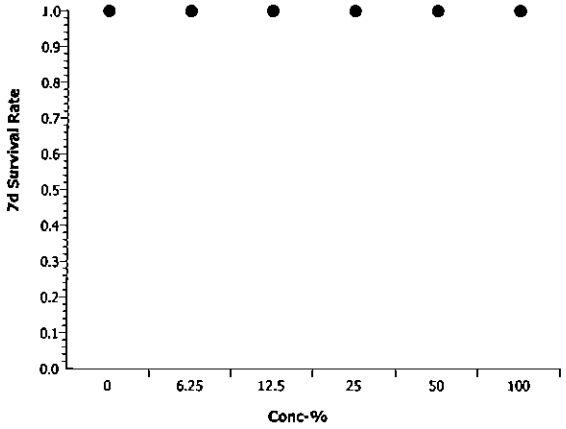
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-0252-0782	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:28	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	21-2120-5618	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:06	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	02-0386-7432	**Code:**	VCF1110334cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	45	45	45	45	45	0	0	0.0%	0
Overall		16	53.81			45	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	290.1	288.4	291.9	285	298	0.8703	5.222	1.8%	0
12.5		8	290.4	288.4	292.3	285	299	0.9509	5.706	1.97%	0
25		8	278.8	277.3	280.2	275	288	0.7387	4.432	1.59%	0
50		8	255	254.2	255.8	251	259	0.3984	2.39	0.94%	0
100		8	212.5	210	215	203	225	1.228	7.368	3.47%	0
Overall		48	276.2			203	342				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	6.95	6.834	7.066	6.4	7.5	0.05704	0.3423	4.93%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.977			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	81	81	81	81	81	0	0	0.0%	0
Overall		16	87.44			81	98				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		45	45	45	45	45	45	45	45

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		298	291	298	288	288	285	285	288
12.5		295	297	299	288	285	286	285	288
25		281	288	281	276	277	275	277	275
50		255	257	259	253	255	255	255	251
100		203	209	211	212	215	220	225	205

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		6.9	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		81	81	81	81	81	81	81	81

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-FIL
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.334

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	14-0221-6834	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:17	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	21-0539-2154	**Code:**	VCF1110334s	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Nov-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
13-3828-4317	Cell Density	100	>100	N/A	15.0%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
06-1421-8947	Cell Density	IC5	95.87	53.43	N/A	1.043	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
06-1421-8947	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
13-3828-4317	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
06-1421-8947	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
13-3828-4317	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
13-3828-4317	Cell Density	PMSD	0.15	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.086E+6	1.136E+6	1.019E+6	1.179E+6	1.219E+4	6.675E+4	6.01%	0.0%
6.25		4	1.618E+6	1.589E+6	1.647E+6	1.545E+6	1.726E+6	1.411E+4	7.726E+4	4.77%	-45.69%
12.5		4	1.610E+6	1.577E+6	1.642E+6	1.513E+6	1.701E+6	1.595E+4	8.737E+4	5.43%	-44.9%
25		4	1.685E+6	1.648E+6	1.722E+6	1.570E+6	1.808E+6	1.805E+4	9.886E+4	5.87%	-51.68%
50		4	1.696E+6	1.653E+6	1.740E+6	1.537E+6	1.814E+6	2.134E+4	1.169E+5	6.89%	-52.71%
100		4	1.460E+6	1.413E+6	1.507E+6	1.338E+6	1.581E+6	2.308E+4	1.264E+5	8.66%	-31.42%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.614E+6	1.545E+6	1.588E+6	1.726E+6
12.5		1.701E+6	1.513E+6	1.561E+6	1.663E+6
25		1.570E+6	1.702E+6	1.808E+6	1.659E+6
50		1.738E+6	1.814E+6	1.537E+6	1.696E+6
100		1.364E+6	1.556E+6	1.338E+6	1.581E+6

CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	13-3828-4317	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:39	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	14-0221-6834	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:17	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	21-0539-2154	**Code:**	VCF1110334s	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Nov-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	15.0%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-7.333	2.407	166600	1.0000	Non-Significant Effect
		12.5	-7.207	2.407	166600	1.0000	Non-Significant Effect
		25	-8.294	2.407	166600	1.0000	Non-Significant Effect
		50	-8.46	2.407	166600	1.0000	Non-Significant Effect
		100	-5.043	2.407	166600	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.15	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.839	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	9.856019E+11	1.971204E+11	5	20.58	<0.0001	Significant Effect
Error	1.724167E+11	9578708000	18			
Total	1.158019E+12	2.066991E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.537	15.09	0.9088	Equal Variances
Variances	Mod Levene Equality of Variance	0.8841	4.248	0.5118	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9477		0.2411	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1054	0.2056	0.7376	Normal Distribution
Distribution	D'Agostino Skewness	0.2803	2.576	0.7793	Normal Distribution
Distribution	D'Agostino Kurtosis	1.814	2.576	0.0697	Normal Distribution
Distribution	D'Agostino Omnibus	3.369	9.21	0.1855	Normal Distribution

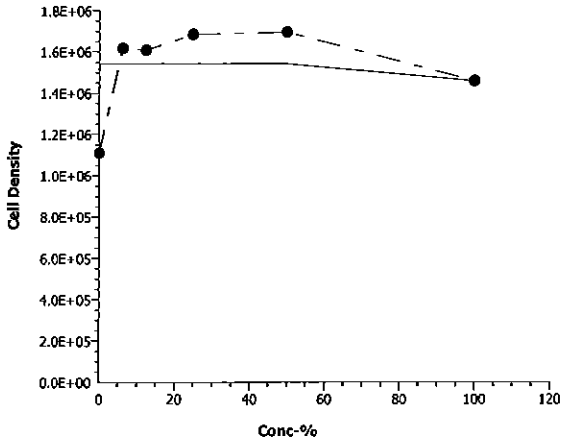
Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.085E+6	1.136E+6	1.019E+6	1.179E+6	1.239E+4	6.674E+4	6.01%	0.0%
6.25		4	1.618E+6	1.589E+6	1.648E+6	1.545E+6	1.726E+6	1.435E+4	7.726E+4	4.77%	-45.69%
12.5		4	1.610E+6	1.576E+6	1.643E+6	1.513E+6	1.701E+6	1.622E+4	8.737E+4	5.43%	-44.9%
25		4	1.685E+6	1.647E+6	1.722E+6	1.570E+6	1.808E+6	1.836E+4	9.886E+4	5.87%	-51.68%
50		4	1.696E+6	1.652E+6	1.741E+6	1.537E+6	1.814E+6	2.170E+4	1.169E+5	6.89%	-52.71%
100		4	1.460E+6	1.412E+6	1.508E+6	1.338E+6	1.581E+6	2.348E+4	1.264E+5	8.66%	-31.42%

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	06-1421-8947	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:39	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Measurement Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	14-0221-6834	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:17	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	21-0539-2154	**Code:**	VCF1110334s	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:30	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Nov-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-FIL		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	78			78	78	0	0	0.0%	0
12.5		1	70			70	70	0	0	0.0%	0
25		1	67			67	67	0	0	0.0%	0
50		1	64			64	64	0	0	0.0%	0
100		1	37			37	37	0	0	0.0%	0
Overall		6	64.17			37	78				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	399.8	397.2	402.4	393	413	1.288	7.727	1.93%	0
12.5		5	391	389.3	392.7	382	395	0.858	5.148	1.32%	0
25		5	391.6	389.8	393.4	382	395	0.9022	5.413	1.38%	0
50		5	396.8	395.9	397.7	392	399	0.4625	2.775	0.7%	0
100		5	410.6	409.2	412	405	415	0.6932	4.159	1.01%	0
Overall		30	404.4			382	449				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	111			111	111	0	0	0.0%	0
12.5		1	115			115	115	0	0	0.0%	0
25		1	115			115	115	0	0	0.0%	0
50		1	130			130	130	0	0	0.0%	0
100		1	105			105	105	0	0	0.0%	0
Overall		6	115.2			105	130				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		78
12.5		70
25		67
50		64
100		37

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		396	398	399	393	413
12.5		392	393	395	393	382
25		382	394	393	395	394
50		397	398	392	399	398
100		411	414	408	405	415

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		111
12.5		115
25		115
50		130
100		105

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

CETIS Analytical Report

Aquatic Bioassay & Consulting Labs, Inc.

Selenastrum Growth Test

Analysis ID:	06-1421-8947	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 14:39	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	14-0221-6834	Test Type:	Cell Growth	Analyst:	
Start Date:	02 Nov-10 13:17	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	06 Nov-10 13:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	96h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	21-0539-2154	Code:	VCF1110334s	Client:	VCWPD
Sample Date:	30 Oct-10 05:30	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Nov-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3019480	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.839	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	95.87	53.43	N/A	1.043	N/A	1.872
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

Conc-%	Control Type	Count	Calculated Variate Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.019E+6	1.179E+6	1.219E+4	6.674E+4	6.01%	0.0%
6.25		4	1.618E+6	1.545E+6	1.726E+6	1.411E+4	7.726E+4	4.77%	-45.69%
12.5		4	1.610E+6	1.513E+6	1.701E+6	1.595E+4	8.737E+4	5.43%	-44.9%
25		4	1.685E+6	1.570E+6	1.808E+6	1.805E+4	9.886E+4	5.87%	-51.68%
50		4	1.696E+6	1.537E+6	1.814E+6	2.134E+4	1.169E+5	6.89%	-52.71%
100		4	1.460E+6	1.338E+6	1.581E+6	2.308E+4	1.264E+5	8.66%	-31.42%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.614E+6	1.545E+6	1.588E+6	1.726E+6
12.5		1.701E+6	1.513E+6	1.561E+6	1.663E+6
25		1.570E+6	1.702E+6	1.808E+6	1.659E+6
50		1.738E+6	1.814E+6	1.537E+6	1.696E+6
100		1.364E+6	1.556E+6	1.338E+6	1.581E+6

Analyst: _____ QA: _____

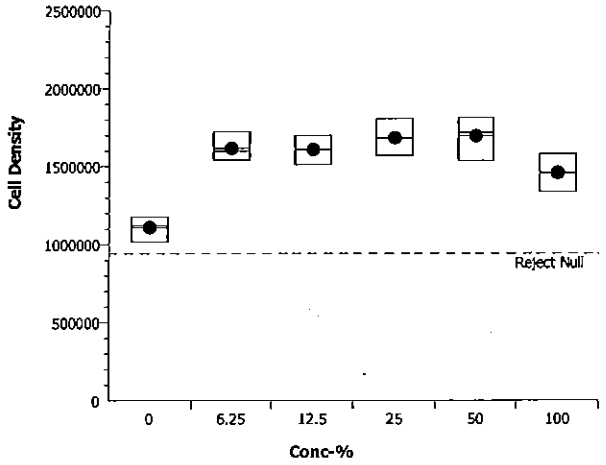
Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

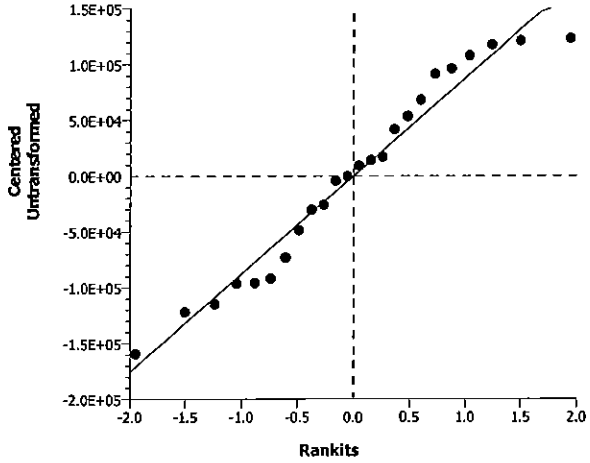
Analysis ID:	13-3828-4317	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:39	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.614E+6	1.545E+6	1.588E+6	1.726E+6
12.5		1.701E+6	1.513E+6	1.561E+6	1.663E+6
25		1.570E+6	1.702E+6	1.808E+6	1.659E+6
50		1.738E+6	1.814E+6	1.537E+6	1.696E+6
100		1.364E+6	1.556E+6	1.338E+6	1.581E+6

Graphics





aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SlM
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.335

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	15-2892-8859	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:07	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	13-6002-2452	Code:	VCF1110335cf	Client:	VCWPD
Sample Date:	30 Oct-10 06:31	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	79h (5.2 °C)	Station:	MO-SIM		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
05-5572-2669	7d Survival Rate	100	>100	N/A	3.52%	1	Steel Many-One Rank Test
02-8559-3088	Mean Dry Biomass-mg	100	>100	N/A	24.35%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
04-6993-7992	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
06-3961-1789	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
04-6993-7992	7d Survival Rate	Control Resp	0.95	0.8 - NL	Yes	Result Within Limits
05-5572-2669	7d Survival Rate	Control Resp	0.95	0.8 - NL	Yes	Result Within Limits
02-8559-3088	Mean Dry Biomass-mg	Control Resp	0.3165	0.25 - NL	Yes	Result Within Limits
06-3961-1789	Mean Dry Biomass-mg	Control Resp	0.3165	0.25 - NL	Yes	Result Within Limits
02-8559-3088	Mean Dry Biomass-mg	PMSD	0.2435	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.95	0.9376	0.9624	0.9333	1	0.006086	0.03333	3.51%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	-5.26%
12.5		4	1	1	1	1	1	0	0	0.0%	-5.26%
25		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-3.51%
50		4	1	1	1	1	1	0	0	0.0%	-5.26%
100		4	1	1	1	1	1	0	0	0.0%	-5.26%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3165	0.2977	0.3353	0.264	0.3707	0.009198	0.05038	15.92%	0.0%
6.25		4	0.4472	0.4351	0.4592	0.4233	0.494	0.005892	0.03227	7.22%	-41.28%
12.5		4	0.479	0.4776	0.4804	0.4753	0.484	0.000706	0.003868	0.81%	-51.34%
25		4	0.4967	0.4775	0.5159	0.4553	0.57	0.00938	0.05138	10.34%	-56.92%
50		4	0.5115	0.4944	0.5286	0.452	0.5473	0.008338	0.04567	8.93%	-61.61%
100		4	0.5673	0.5438	0.5909	0.492	0.6413	0.01152	0.06312	11.13%	-79.25%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	0.9333	0.9333
6.25		1	1	1	1
12.5		1	1	1	1
25		1	0.9333	1	1
50		1	1	1	1
100		1	1	1	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3707	0.3467	0.2847	0.264
6.25		0.494	0.4233	0.4287	0.4427
12.5		0.484	0.4753	0.4767	0.48
25		0.57	0.468	0.4933	0.4553
50		0.5473	0.452	0.4993	0.5473
100		0.588	0.492	0.6413	0.548

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	02-8559-3088	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:15	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	15-2892-8859	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:07	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	13-6002-2452	Code:	VCF1110335cf	Client:	VCWPD
Sample Date:	30 Oct-10 06:31	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	79h (5.2 °C)	Station:	MO-SIM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	24.35%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-4.081	2.407	0.07708	1.0000	Non-Significant Effect
		12.5	-5.075	2.407	0.07708	1.0000	Non-Significant Effect
		25	-5.627	2.407	0.07708	1.0000	Non-Significant Effect
		50	-6.09	2.407	0.07708	1.0000	Non-Significant Effect
		100	-7.834	2.407	0.07708	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3165	0.25 - NL	Yes	Result Within Limits
PMSD	0.2435	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.881	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.1442848	0.02885696	5	14.07	<0.0001	Significant Effect
Error	0.03690989	0.002050549	18			
Total	0.1811947	0.03090751	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	11.82	15.09	0.0373	Equal Variances
Variances	Mod Levene Equality of Variance	1.702	4.248	0.1851	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9756		0.8036	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.117	0.2056	0.5433	Normal Distribution
Distribution	D'Agostino Skewness	0.4159	2.576	0.6775	Normal Distribution
Distribution	D'Agostino Kurtosis	0.4441	2.576	0.6570	Normal Distribution
Distribution	D'Agostino Omnibus	0.3702	9.21	0.8310	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3165	0.2973	0.3357	0.264	0.3707	0.009355	0.05038	15.92%	0.0%
6.25		4	0.4472	0.4349	0.4594	0.4233	0.494	0.005992	0.03227	7.22%	-41.28%
12.5		4	0.479	0.4775	0.4805	0.4753	0.484	0.000718	0.003869	0.81%	-51.34%
25		4	0.4967	0.4771	0.5162	0.4553	0.57	0.009541	0.05138	10.34%	-56.92%
50		4	0.5115	0.4941	0.5289	0.452	0.5473	0.00848	0.04567	8.93%	-61.61%
100		4	0.5673	0.5433	0.5913	0.492	0.6413	0.01172	0.06312	11.13%	-79.25%

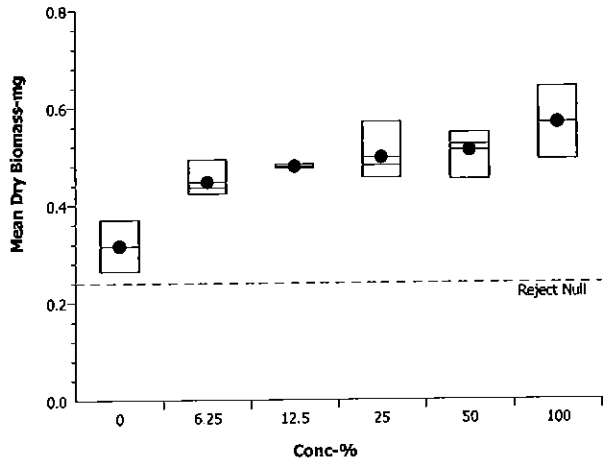
Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

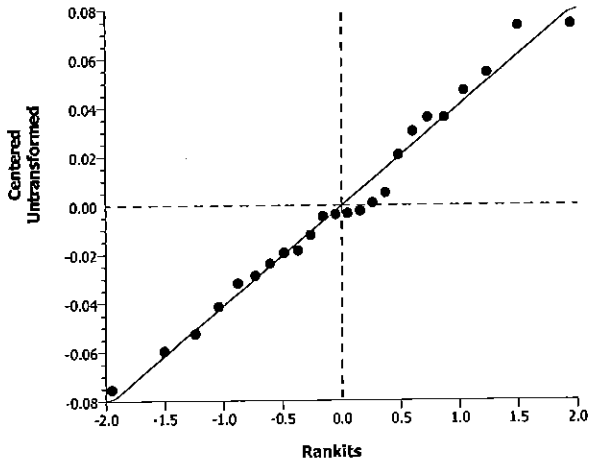
Analysis ID:	02-8559-3088	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:15	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3707	0.3467	0.2847	0.264
6.25		0.494	0.4233	0.4287	0.4427
12.5		0.484	0.4753	0.4767	0.48
25		0.57	0.468	0.4933	0.4553
50		0.5473	0.452	0.4993	0.5473
100		0.588	0.492	0.6413	0.548

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-5572-2669	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:15	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	15-2892-8859	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:07	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	13-6002-2452	**Code:**	VCF1110335cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:31	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	79h (5.2 °C)	**Station:**	MO-SIM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	3.52%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	24	10	1	0.9989	Non-Significant Effect
		12.5	24	10	1	0.9989	Non-Significant Effect
		25	22	10	2	0.9908	Non-Significant Effect
		50	24	10	1	0.9989	Non-Significant Effect
		100	24	10	1	0.9989	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.95	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.937	2.802	0.0259	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.03179734	0.006359469	5	4.4	0.0086	Significant Effect
Error	0.02601601	0.001445334	18			
Total	0.05781335	0.007804803	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	0.8	4.248	0.5640	Equal Variances
Distribution	Shapiro-Wilk Normality	0.7525		<0.0001	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.3333	0.2056	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	2.40E-14	2.576	1.0000	Normal Distribution
Distribution	D'Agostino Kurtosis	3.005	2.576	0.0027	Non-normal Distribution
Distribution	D'Agostino Omnibus	9.032	9.21	0.0109	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-5572-2669	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:15	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.95	0.9373	0.9627	0.9333	1	0.00619	0.03333	3.51%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	-5.26%
12.5		4	1	1	1	1	1	0	0	0.0%	-5.26%
25		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-3.51%
50		4	1	1	1	1	1	0	0	0.0%	-5.26%
100		4	1	1	1	1	1	0	0	0.0%	-5.26%

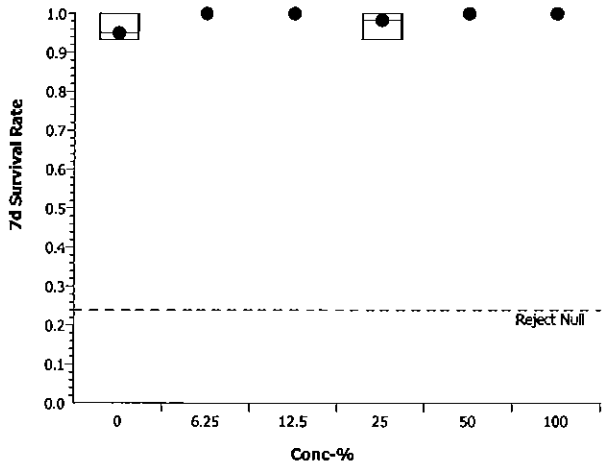
Angular (Corrected) Transformed Summary

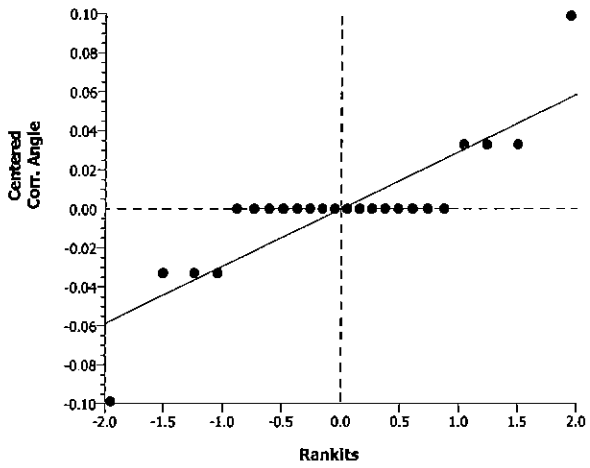
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.343	1.318	1.368	1.31	1.441	0.01223	0.06585	4.91%	0.0%
6.25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-7.36%
12.5		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-7.36%
25		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-4.91%
50		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-7.36%
100		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-7.36%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	0.9333	0.9333
6.25		1	1	1	1
12.5		1	1	1	1
25		1	0.9333	1	1
50		1	1	1	1
100		1	1	1	1

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	06-3961-1789	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:15	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	15-2892-8859	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:07	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	13-6002-2452	Code:	VCF1110335cf	Client:	VCWPD
Sample Date:	30 Oct-10 06:31	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	79h (5.2 °C)	Station:	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2895625	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3165	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.881	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3165	0.264	0.3707	0.009198	0.05038	15.92%	0.0%
6.25		4	0.4472	0.4233	0.494	0.005892	0.03227	7.22%	-41.28%
12.5		4	0.479	0.4753	0.484	0.000706	0.003869	0.81%	-51.34%
25		4	0.4967	0.4553	0.57	0.00938	0.05138	10.34%	-56.92%
50		4	0.5115	0.452	0.5473	0.008338	0.04567	8.93%	-61.61%
100		4	0.5673	0.492	0.6413	0.01152	0.06312	11.13%	-79.25%

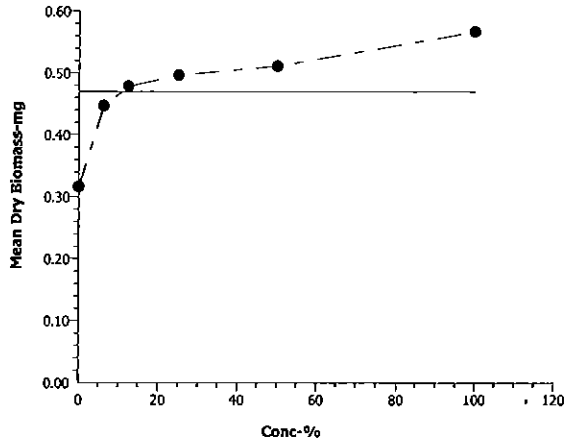
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3707	0.3467	0.2847	0.264
6.25		0.494	0.4233	0.4287	0.4427
12.5		0.484	0.4753	0.4767	0.48
25		0.57	0.468	0.4933	0.4553
50		0.5473	0.452	0.4993	0.5473
100		0.588	0.492	0.6413	0.548

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	06-3961-1789	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:15	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-6993-7992	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:15	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	15-2892-8859	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:07	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	13-6002-2452	**Code:**	VCF1110335cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:31	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	79h (5.2 °C)	**Station:**	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2895625	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.95	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.95	0.9333	1	0.006086	0.03333	3.51%	0.0%	57	60
6.25		4	1	1	1	0	0	0.0%	-5.26%	60	60
12.5		4	1	1	1	0	0	0.0%	-5.26%	60	60
25		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-3.51%	59	60
50		4	1	1	1	0	0	0.0%	-5.26%	60	60
100		4	1	1	1	0	0	0.0%	-5.26%	60	60

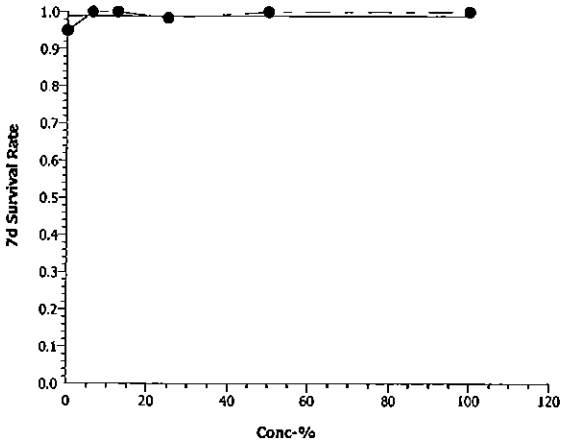
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9333	0.9333	0.9333
6.25		1	1	1	1
12.5		1	1	1	1
25		1	0.9333	1	1
50		1	1	1	1
100		1	1	1	1

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	04-6993-7992	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:15	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	15-2892-8859	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:07	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	13-6002-2452	**Code:**	VCF1110335cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:31	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	79h (5.2 °C)	**Station:**	MO-SIM		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	154	154	154	154	154	0	0	0.0%	0
Overall		16	108.3			61	154				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	366	364.8	367.2	361	369	0.6108	3.665	1.0%	0
12.5		8	517.9	494.8	541	431	577	11.38	68.28	13.18%	0
25		8	517.5	494.2	540.8	433	577	11.46	68.77	13.29%	0
50		8	813.5	810.7	816.3	798	825	1.389	8.332	1.02%	0
100		8	1282	1277	1287	1252	1299	2.628	15.77	1.23%	0
Overall		48	637.9			317	1299				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.992			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	250	250	250	250	250	0	0	0.0%	0
Overall		16	171.9			90	250				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		154	154	154	154	154	154	154	154

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		361	368	361	368	369	369	369	363
12.5		431	439	439	565	572	575	577	545
25		434	433	439	565	572	575	577	545
50		812	811	819	808	815	820	825	798
100		1296	1291	1266	1299	1285	1285	1282	1252

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		250	250	250	250	250	250	250	250

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SIM
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.335

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	06-3832-0804	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:07	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	12-7373-1724	**Code:**	VCF1110335cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:31	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	79h (5.2 °C)	**Station:**	MO-SIM		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
15-8640-9331	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
00-6415-6673	Reproduction	100	>100	N/A	12.59%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
09-4030-9533	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
15-1719-6592	Reproduction	IC5	77.67	3.164	N/A	1.288	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
09-4030-9533	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
15-8640-9331	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
00-6415-6673	Reproduction	Control Resp	22.6	15 - NL	Yes	Result Within Limits
15-1719-6592	Reproduction	Control Resp	22.6	15 - NL	Yes	Result Within Limits
00-6415-6673	Reproduction	PMSD	0.1259	0.13 - 0.47	Yes	Result Below Limit

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	22.6	21.34	23.86	17	30	0.6158	3.373	14.93%	0.0%
6.25		10	20.5	19.55	21.45	15	24	0.4655	2.55	12.44%	9.29%
12.5		10	22	21.47	22.53	21	25	0.2582	1.414	6.43%	2.66%
25		10	23.4	22.57	24.23	21	27	0.4055	2.221	9.49%	-3.54%
50		10	23.3	22.24	24.36	18	29	0.5168	2.83	12.15%	-3.1%
100		10	20.8	19.43	22.17	13	25	0.6711	3.676	17.67%	7.97%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	22	24	22	24	21	22	20	30	24	17
6.25		22	15	19	19	21	22	24	23	20	20
12.5		25	21	21	23	21	21	21	23	23	21
25		25	21	21	27	25	24	21	24	25	21
50		25	22	23	18	24	24	21	23	29	24
100		24	22	20	25	21	23	24	18	18	13

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-6415-6673	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 15:47	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	06-3832-0804	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:07	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	12-7373-1724	Code:	VCF1110335cc	Client:	VCWPD
Sample Date:	30 Oct-10 06:31	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	79h (5.2 °C)	Station:	MO-SIM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	12.59%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	1.69	2.289	2.845	0.1601	Non-Significant Effect
		12.5	0.4828	2.289	2.845	0.6535	Non-Significant Effect
		25	-0.6437	2.289	2.845	0.9584	Non-Significant Effect
		50	-0.5633	2.289	2.845	0.9492	Non-Significant Effect
		100	1.448	2.289	2.845	0.2347	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	22.6	15 - NL	Yes	Result Within Limits
PMSD	0.1259	0.13 - 0.47	Yes	Result Below Limit

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.934	3.2	0.1424	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	76.4	15.28	5	1.979	0.0966	Non-Significant Effect
Error	417	7.722222	54			
Total	493.4	23.00222	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	8.521	15.09	0.1298	Equal Variances
Variances	Mod Levene Equality of Variance	0.9341	3.377	0.4664	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9725		0.1941	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.0946	0.1331	0.1897	Normal Distribution
Distribution	D'Agostino Skewness	0.6396	2.576	0.5224	Normal Distribution
Distribution	D'Agostino Kurtosis	1.781	2.576	0.0748	Normal Distribution
Distribution	D'Agostino Omnibus	3.583	9.21	0.1667	Normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	22.6	21.32	23.88	17	30	0.6264	3.373	14.93%	0.0%
6.25		10	20.5	19.53	21.47	15	24	0.4734	2.55	12.44%	9.29%
12.5		10	22	21.46	22.54	21	25	0.2626	1.414	6.43%	2.66%
25		10	23.4	22.56	24.24	21	27	0.4124	2.221	9.49%	-3.54%
50		10	23.3	22.22	24.38	18	29	0.5256	2.83	12.15%	-3.1%
100		10	20.8	19.4	22.2	13	25	0.6826	3.676	17.67%	7.97%

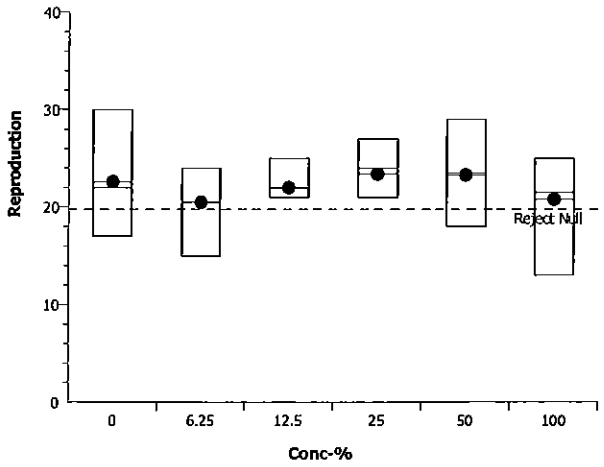
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

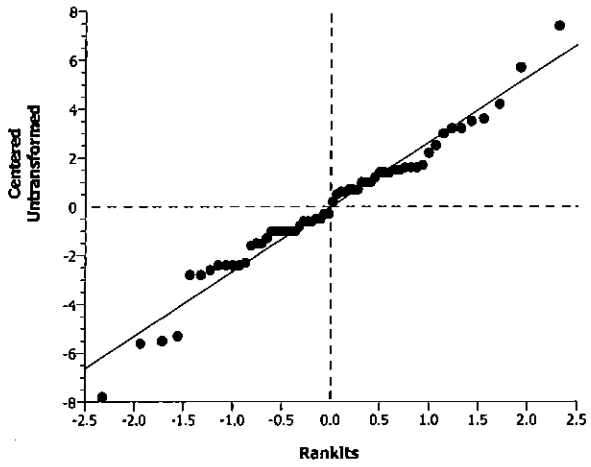
Analysis ID:	00-6415-6673	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:47	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	22	24	22	24	21	22	20	30	24	17
6.25		22	15	19	19	21	22	24	23	20	20
12.5		25	21	21	23	21	21	21	23	23	21
25		25	21	21	27	25	24	21	24	25	21
50		25	22	23	18	24	24	21	23	29	24
100		24	22	20	25	21	23	24	18	18	13

Graphics





CETIS Analytical Report

Aquatic Bioassay & Consulting Labs, Inc.

Ceriodaphnia 7-d Survival and Reproduction Test

Analysis ID:	15-1719-6592	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 15:47	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	06-3832-0804	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:07	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	12-7373-1724	Code:	VCF1110335cc	Client:	VCWPD
Sample Date:	30 Oct-10 06:31	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	79h (5.2 °C)	Station:	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	453528	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	22.6	15 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.934	3.2	0.1424	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	77.67	3.164	N/A	1.288	N/A	31.6
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	22.6	17	30	0.6158	3.373	14.93%	0.0%
6.25		10	20.5	15	24	0.4655	2.55	12.44%	9.29%
12.5		10	22	21	25	0.2582	1.414	6.43%	2.66%
25		10	23.4	21	27	0.4055	2.221	9.49%	-3.54%
50		10	23.3	18	29	0.5168	2.83	12.15%	-3.1%
100		10	20.8	13	25	0.6711	3.676	17.67%	7.97%

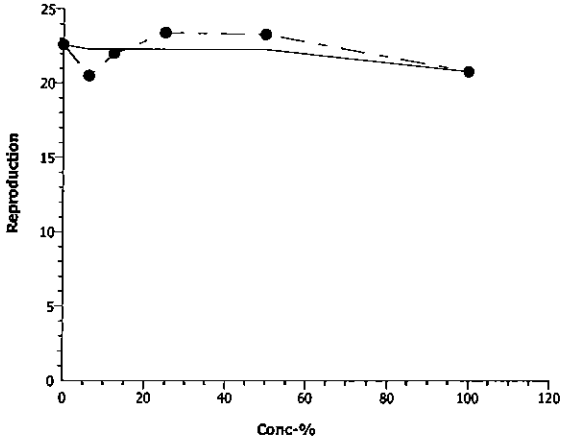
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	22	24	22	24	21	22	20	30	24	17
6.25		22	15	19	19	21	22	24	23	20	20
12.5		25	21	21	23	21	21	21	23	23	21
25		25	21	21	27	25	24	21	24	25	21
50		25	22	23	18	24	24	21	23	29	24
100		24	22	20	25	21	23	24	18	18	13

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	15-1719-6592	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:47	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-4030-9533	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 15:47	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	06-3832-0804	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:07	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	12-7373-1724	Code:	VCF1110335cc	Client:	VCWPD
Sample Date:	30 Oct-10 06:31	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	79h (5.2 °C)	Station:	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	453528	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

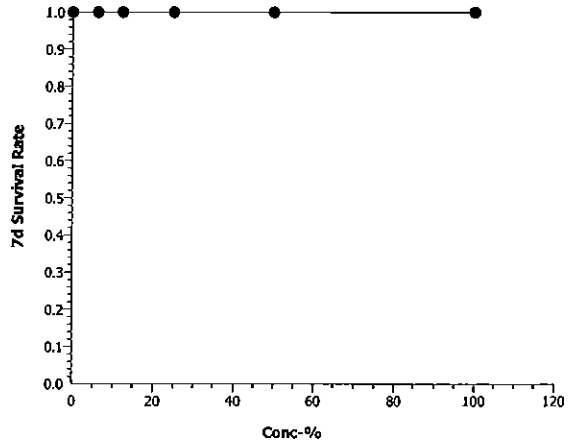
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-4030-9533	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:47	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	15-8640-9331	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:47	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	06-3832-0804	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:07	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	12-7373-1724	**Code:**	VCF1110335cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:31	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	79h (5.2 °C)	**Station:**	MO-SIM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

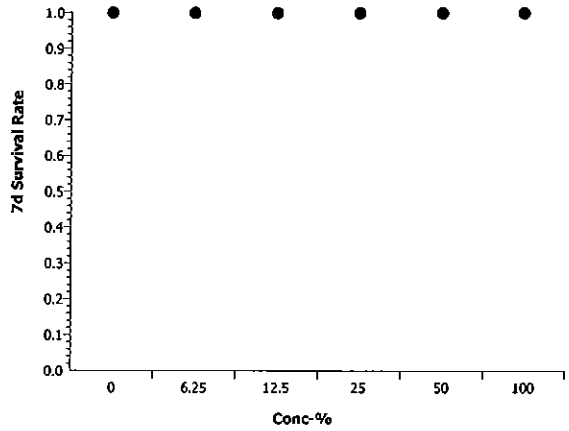
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	15-8640-9331	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:47	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	06-3832-0804	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:07	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	12-7373-1724	**Code:**	VCF1110335cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:31	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	79h (5.2 °C)	**Station:**	MO-SIM		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	154	154	154	154	154	0	0	0.0%	0
Overall		16	108.3			61	154				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	366	364.8	367.2	361	369	0.6108	3.665	1.0%	0
12.5		8	517.9	494.8	541	431	577	11.38	68.28	13.18%	0
25		8	517.5	494.2	540.8	433	577	11.46	68.77	13.29%	0
50		8	813.5	810.7	816.3	798	825	1.389	8.332	1.02%	0
100		8	1282	1277	1287	1252	1299	2.628	15.77	1.23%	0
Overall		48	637.9			317	1299				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.992			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	250	250	250	250	250	0	0	0.0%	0
Overall		16	171.9			90	250				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		154	154	154	154	154	154	154	154

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		361	368	361	368	369	369	369	363
12.5		431	439	439	565	572	575	577	545
25		434	433	439	565	572	575	577	545
50		812	811	819	808	815	820	825	798
100		1296	1291	1266	1299	1285	1285	1282	1252

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		250	250	250	250	250	250	250	250

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SIM
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.335

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Aquatic Bioassay & Consulting Labs, Inc.

Selenastrum Growth Test

Batch ID:	10-6357-3947	Test Type:	Cell Growth	Analyst:	
Start Date:	02 Nov-10 13:18	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	06 Nov-10 13:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	96h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	06-4198-8856	Code:	VCF1110335s	Client:	VCWPD
Sample Date:	30 Oct-10 06:31	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	79h (5.2 °C)	Station:	MO-SIM		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
08-4705-4604	Cell Density	100	>100	N/A	13.93%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
12-4282-1081	Cell Density	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
08-4705-4604	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
12-4282-1081	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
08-4705-4604	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
12-4282-1081	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
08-4705-4604	Cell Density	PMSD	0.1393	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.086E+6	1.136E+6	1.019E+6	1.179E+6	1.219E+4	6.675E+4	6.01%	0.0%
6.25		4	1.665E+6	1.619E+6	1.711E+6	1.556E+6	1.832E+6	2.257E+4	1.236E+5	7.43%	-49.88%
12.5		4	1.747E+6	1.703E+6	1.790E+6	1.621E+6	1.905E+6	2.147E+4	1.176E+5	6.73%	-57.24%
25		4	1.823E+6	1.786E+6	1.860E+6	1.733E+6	1.955E+6	1.795E+4	9.832E+4	5.39%	-64.12%
50		4	1.903E+6	1.892E+6	1.914E+6	1.883E+6	1.946E+6	5.298E+3	2.902E+4	1.53%	-71.33%
100		4	1.798E+6	1.770E+6	1.826E+6	1.713E+6	1.883E+6	1.354E+4	7.416E+4	4.12%	-61.87%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.832E+6	1.682E+6	1.556E+6	1.589E+6
12.5		1.621E+6	1.905E+6	1.736E+6	1.724E+6
25		1.838E+6	1.955E+6	1.733E+6	1.766E+6
50		1.894E+6	1.883E+6	1.946E+6	1.889E+6
100		1.830E+6	1.766E+6	1.883E+6	1.713E+6

CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	08-4705-4604	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 14:46	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	10-6357-3947	Test Type:	Cell Growth	Analyst:	
Start Date:	02 Nov-10 13:18	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	06 Nov-10 13:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	96h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	06-4198-8856	Code:	VCF1110335s	Client:	VCWPD
Sample Date:	30 Oct-10 06:31	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	79h (5.2 °C)	Station:	MO-SIM		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	13.93%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-8.62	2.407	154700	1.0000	Non-Significant Effect
		12.5	-9.892	2.407	154700	1.0000	Non-Significant Effect
		25	-11.08	2.407	154700	1.0000	Non-Significant Effect
		50	-12.33	2.407	154700	1.0000	Non-Significant Effect
		100	-10.69	2.407	154700	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1393	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.08	2.802	0.7235	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	1.650439E+12	3.300878E+11	5	39.95	<0.0001	Significant Effect
Error	1.487105E+11	8261694000	18			
Total	1.799149E+12	3.383495E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.368	15.09	0.3726	Equal Variances
Variances	Mod Levene Equality of Variance	0.9165	4.248	0.4925	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9523		0.3035	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1234	0.2056	0.4494	Normal Distribution
Distribution	D'Agostino Skewness	1.19	2.576	0.2339	Normal Distribution
Distribution	D'Agostino Kurtosis	0.02245	2.576	0.9821	Normal Distribution
Distribution	D'Agostino Omnibus	1.418	9.21	0.4922	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.085E+6	1.136E+6	1.019E+6	1.179E+6	1.239E+4	6.674E+4	6.01%	0.0%
6.25		4	1.665E+6	1.618E+6	1.712E+6	1.556E+6	1.832E+6	2.295E+4	1.236E+5	7.43%	-49.88%
12.5		4	1.747E+6	1.702E+6	1.791E+6	1.621E+6	1.905E+6	2.184E+4	1.176E+5	6.73%	-57.24%
25		4	1.823E+6	1.786E+6	1.860E+6	1.733E+6	1.955E+6	1.826E+4	9.832E+4	5.39%	-64.12%
50		4	1.903E+6	1.892E+6	1.914E+6	1.883E+6	1.946E+6	5.388E+3	2.902E+4	1.53%	-71.33%
100		4	1.798E+6	1.770E+6	1.826E+6	1.713E+6	1.883E+6	1.377E+4	7.416E+4	4.12%	-61.87%

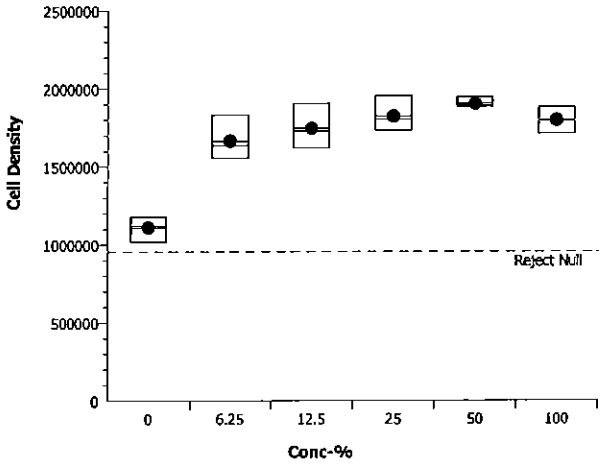
Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

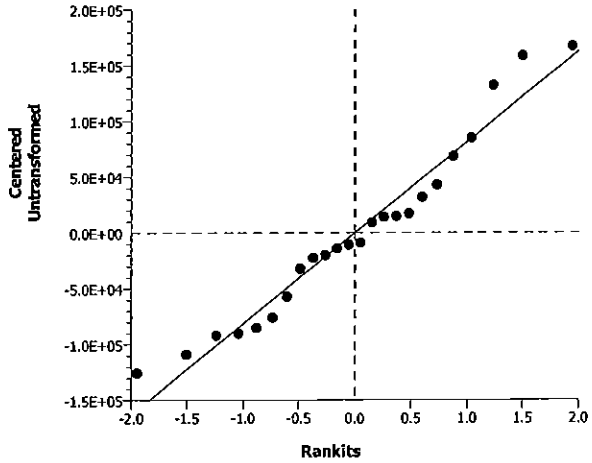
Analysis ID:	08-4705-4604	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:46	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.832E+6	1.682E+6	1.556E+6	1.589E+6
12.5		1.621E+6	1.905E+6	1.736E+6	1.724E+6
25		1.838E+6	1.955E+6	1.733E+6	1.766E+6
50		1.894E+6	1.883E+6	1.946E+6	1.889E+6
100		1.830E+6	1.766E+6	1.883E+6	1.713E+6

Graphics





CETIS Analytical Report

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	12-4282-1081	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:46	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	10-6357-3947	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:18	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	06-4198-8856	**Code:**	VCF1110335s	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:31	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	79h (5.2 °C)	**Station:**	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7747401	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.08	2.802	0.7235	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.019E+6	1.179E+6	1.219E+4	6.674E+4	6.01%	0.0%
6.25		4	1.665E+6	1.556E+6	1.832E+6	2.257E+4	1.236E+5	7.43%	-49.88%
12.5		4	1.747E+6	1.621E+6	1.905E+6	2.147E+4	1.176E+5	6.73%	-57.24%
25		4	1.823E+6	1.733E+6	1.955E+6	1.795E+4	9.832E+4	5.39%	-64.12%
50		4	1.903E+6	1.883E+6	1.946E+6	5.298E+3	2.902E+4	1.53%	-71.33%
100		4	1.798E+6	1.713E+6	1.883E+6	1.354E+4	7.416E+4	4.12%	-61.87%

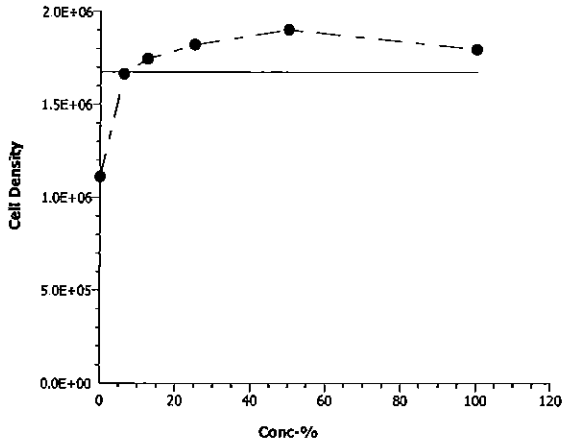
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.832E+6	1.682E+6	1.556E+6	1.589E+6
12.5		1.621E+6	1.905E+6	1.736E+6	1.724E+6
25		1.838E+6	1.955E+6	1.733E+6	1.766E+6
50		1.894E+6	1.883E+6	1.946E+6	1.889E+6
100		1.830E+6	1.766E+6	1.883E+6	1.713E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	12-4282-1081	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:46	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Measurement Report

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	10-6357-3947	Test Type:	Cell Growth	Analyst:	
Start Date:	02 Nov-10 13:18	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	06 Nov-10 13:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	96h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	06-4198-8856	Code:	VCF1110335s	Client:	VCWPD
Sample Date:	30 Oct-10 06:31	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	79h (5.2 °C)	Station:	MO-SIM		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	75			75	75	0	0	0.0%	0
12.5		1	66			66	66	0	0	0.0%	0
25		1	68			68	68	0	0	0.0%	0
50		1	70			70	70	0	0	0.0%	0
100		1	45			45	45	0	0	0.0%	0
Overall		6	65.5			45	75				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	422	421.2	422.8	420	426	0.3909	2.345	0.56%	0
12.5		5	463	458.1	467.9	438	475	2.412	14.47	3.13%	0
25		5	469.2	467.9	470.5	465	475	0.628	3.768	0.8%	0
50		5	529.8	528.8	530.8	528	535	0.5055	3.033	0.57%	0
100		5	657.4	656.9	657.9	655	659	0.2528	1.517	0.23%	0
Overall		30	496.3			420	659				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	130			130	130	0	0	0.0%	0
12.5		1	117			117	117	0	0	0.0%	0
25		1	145			145	145	0	0	0.0%	0
50		1	180			180	180	0	0	0.0%	0
100		1	187			187	187	0	0	0.0%	0
Overall		6	145.7			115	187				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		75
12.5		66
25		68
50		70
100		45

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		421	421	422	420	426
12.5		438	467	465	475	470
25		469	467	465	475	470
50		530	528	528	528	535
100		659	658	655	658	657

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		130
12.5		117
25		145
50		180
100		187

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MPK
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.336

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

For Thomas (Tim) Mikel
Laboratory Director

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	17-0212-2577	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:08	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	15-3351-6192	Code:	VCF1110336cf	Client:	VCWPD
Sample Date:	30 Oct-10 07:14	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-MPK		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
05-8724-6825	7d Survival Rate	100	>100	N/A	20.72%	1	Dunnett's Multiple Comparison Test
09-5257-3219	Mean Dry Biomass-mg	100	>100	N/A	26.62%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
18-2398-1971	7d Survival Rate	EC5	74.82	48.77	N/A	1.337	Linear Interpolation (ICPIN)
		EC10	99.64	51.55	N/A	1.004	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
02-4220-1185	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
05-8724-6825	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits
18-2398-1971	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits
02-4220-1185	Mean Dry Biomass-mg	Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
09-5257-3219	Mean Dry Biomass-mg	Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
09-5257-3219	Mean Dry Biomass-mg	PMSD	0.2662	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.8667	0.8463	0.887	0.8	0.9333	0.009938	0.05443	6.28%	0.0%
6.25		4	0.9167	0.8928	0.9405	0.8667	1	0.01165	0.06383	6.96%	-5.77%
12.5		4	0.95	0.9376	0.9624	0.9333	1	0.006086	0.03333	3.51%	-9.62%
25		4	0.95	0.9262	0.9738	0.8667	1	0.01165	0.06383	6.72%	-9.62%
50		4	0.95	0.9262	0.9738	0.8667	1	0.01165	0.06383	6.72%	-9.62%
100		4	0.8333	0.7741	0.8926	0.6667	1	0.02897	0.1587	19.04%	3.85%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.3286	0.3657	0.2987	0.4147	0.009084	0.04976	14.33%	0.0%
6.25		4	0.4038	0.3881	0.4196	0.3427	0.4367	0.007694	0.04214	10.44%	-16.32%
12.5		4	0.4645	0.4464	0.4826	0.3973	0.5093	0.008827	0.04835	10.41%	-33.8%
25		4	0.4818	0.4614	0.5022	0.408	0.5327	0.009971	0.05461	11.33%	-38.79%
50		4	0.5002	0.4803	0.52	0.4333	0.5587	0.009719	0.05323	10.64%	-44.07%
100		4	0.4235	0.3964	0.4506	0.3547	0.498	0.01327	0.07269	17.16%	-21.99%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.8667	1	0.8667	0.9333
12.5		0.9333	1	0.9333	0.9333
25		0.9333	1	0.8667	1
50		1	0.9333	1	0.8667
100		1	0.7333	0.9333	0.6667

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.3427	0.4367	0.4253	0.4107
12.5		0.4647	0.5093	0.4867	0.3973
25		0.5327	0.4753	0.408	0.5113
50		0.4873	0.5213	0.5587	0.4333
100		0.498	0.368	0.4733	0.3547

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	09-5257-3219	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:29	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	17-0212-2577	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:08	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	15-3351-6192	**Code:**	VCF1110336cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 07:14	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-MPK		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	26.62%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-1.476	2.407	0.09242	0.9956	Non-Significant Effect
		12.5	-3.056	2.407	0.09242	1.0000	Non-Significant Effect
		25	-3.507	2.407	0.09242	1.0000	Non-Significant Effect
		50	-3.985	2.407	0.09242	1.0000	Non-Significant Effect
		100	-1.988	2.407	0.09242	0.9991	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
PMSD	0.2662	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.551	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.06443378	0.01288676	5	4.371	0.0088	Significant Effect
Error	0.05306955	0.002948308	18			
Total	0.1175033	0.01583507	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	0.9513	15.09	0.9664	Equal Variances
Variances	Mod Levene Equality of Variance	0.7073	4.248	0.6256	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9264		0.0812	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1353	0.2056	0.3027	Normal Distribution
Distribution	D'Agostino Skewness	0.4791	2.576	0.6318	Normal Distribution
Distribution	D'Agostino Kurtosis	2.162	2.576	0.0306	Normal Distribution
Distribution	D'Agostino Omnibus	4.905	9.21	0.0861	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.3282	0.3661	0.2987	0.4147	0.009239	0.04976	14.33%	0.0%
6.25		4	0.4038	0.3878	0.4199	0.3427	0.4367	0.007826	0.04214	10.44%	-16.32%
12.5		4	0.4645	0.4461	0.4829	0.3973	0.5093	0.008978	0.04835	10.41%	-33.8%
25		4	0.4818	0.4611	0.5026	0.408	0.5327	0.01014	0.05461	11.33%	-38.79%
50		4	0.5002	0.4799	0.5204	0.4333	0.5587	0.009885	0.05323	10.64%	-44.07%
100		4	0.4235	0.3958	0.4512	0.3547	0.498	0.0135	0.07269	17.16%	-21.99%

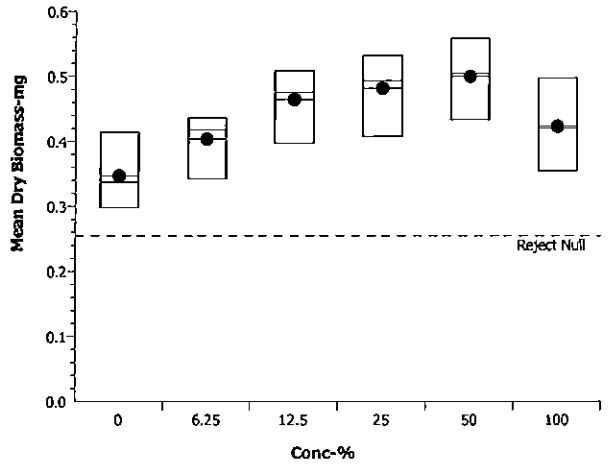
Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

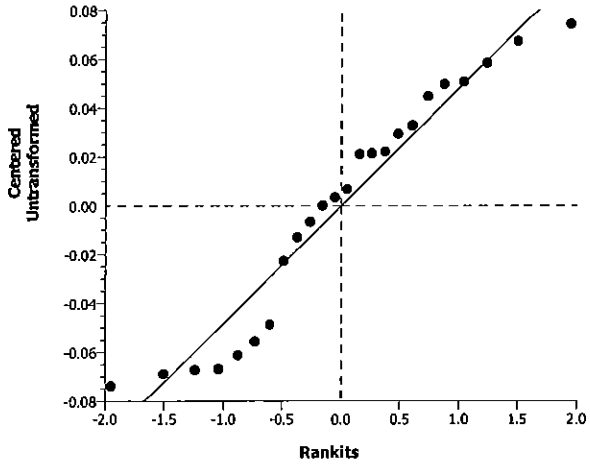
Analysis ID:	09-5257-3219	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:29	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.3427	0.4367	0.4253	0.4107
12.5		0.4647	0.5093	0.4867	0.3973
25		0.5327	0.4753	0.408	0.5113
50		0.4873	0.5213	0.5587	0.4333
100		0.498	0.368	0.4733	0.3547

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-8724-6825	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:29	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	17-0212-2577	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:08	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	15-3351-6192	Code:	VCF1110336cf	Client:	VCWPD
Sample Date:	30 Oct-10 07:14	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-MPK		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	20.72%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-0.8915	2.407	0.2256	0.9770	Non-Significant Effect
		12.5	-1.493	2.407	0.2256	0.9971	Non-Significant Effect
		25	-1.543	2.407	0.2256	0.9964	Non-Significant Effect
		50	-1.543	2.407	0.2256	0.9964	Non-Significant Effect
		100	0.2037	2.407	0.2256	0.7664	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.198	2.802	0.5046	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.1125509	0.02251017	5	1.282	0.3147	Non-Significant Effect
Error	0.3161414	0.01756341	18			
Total	0.4286923	0.04007358	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.219	15.09	0.3897	Equal Variances
Variances	Mod Levene Equality of Variance	3.229	4.248	0.0296	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9684		0.6277	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1637	0.2056	0.0957	Normal Distribution
Distribution	D'Agostino Skewness	0.2261	2.576	0.8211	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2268	2.576	0.8206	Normal Distribution
Distribution	D'Agostino Omnibus	0.1026	9.21	0.9500	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-8724-6825	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:29	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.8667	0.846	0.8874	0.8	0.9333	0.01011	0.05443	6.28%	0.0%
6.25		4	0.9167	0.8924	0.9409	0.8667	1	0.01185	0.06383	6.96%	-5.77%
12.5		4	0.95	0.9373	0.9627	0.9333	1	0.00619	0.03333	3.51%	-9.62%
25		4	0.95	0.9257	0.9743	0.8667	1	0.01185	0.06383	6.72%	-9.62%
50		4	0.95	0.9257	0.9743	0.8667	1	0.01185	0.06383	6.72%	-9.62%
100		4	0.8333	0.773	0.8937	0.6667	1	0.02947	0.1587	19.04%	3.85%

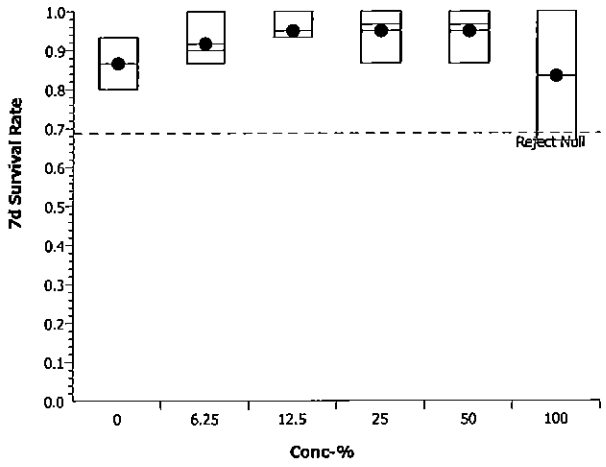
Angular (Corrected) Transformed Summary

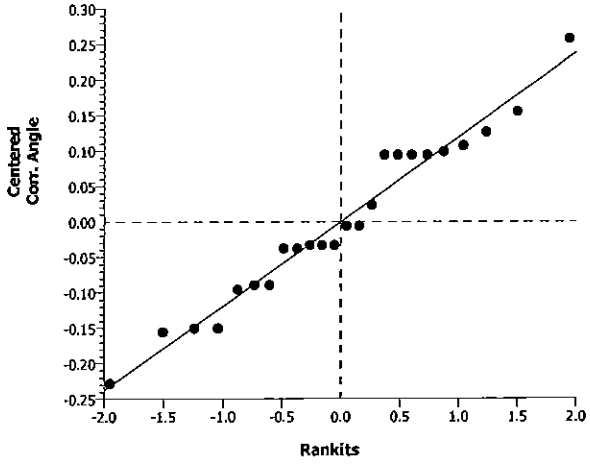
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.203	1.171	1.234	1.107	1.31	0.0154	0.08293	6.9%	0.0%
6.25		4	1.286	1.242	1.33	1.197	1.441	0.02158	0.1162	9.04%	-6.95%
12.5		4	1.343	1.318	1.368	1.31	1.441	0.01223	0.06585	4.91%	-11.63%
25		4	1.347	1.302	1.392	1.197	1.441	0.02189	0.1179	8.75%	-12.03%
50		4	1.347	1.302	1.392	1.197	1.441	0.02189	0.1179	8.75%	-12.03%
100		4	1.184	1.096	1.271	0.9553	1.441	0.0427	0.2299	19.43%	1.59%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.8667	1	0.8667	0.9333
12.5		0.9333	1	0.9333	0.9333
25		0.9333	1	0.8667	1
50		1	0.9333	1	0.8667
100		1	0.7333	0.9333	0.6667

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	02-4220-1185	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:29	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	17-0212-2577	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:08	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	15-3351-6192	Code:	VCF1110336cf	Client:	VCWPD
Sample Date:	30 Oct-10 07:14	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-MPK		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3019480	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.551	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.2987	0.4147	0.009084	0.04976	14.33%	0.0%
6.25		4	0.4038	0.3427	0.4367	0.007694	0.04214	10.44%	-16.32%
12.5		4	0.4645	0.3973	0.5093	0.008827	0.04835	10.41%	-33.8%
25		4	0.4818	0.408	0.5327	0.009971	0.05461	11.33%	-38.79%
50		4	0.5002	0.4333	0.5587	0.009719	0.05323	10.64%	-44.07%
100		4	0.4235	0.3547	0.498	0.01327	0.07269	17.16%	-21.99%

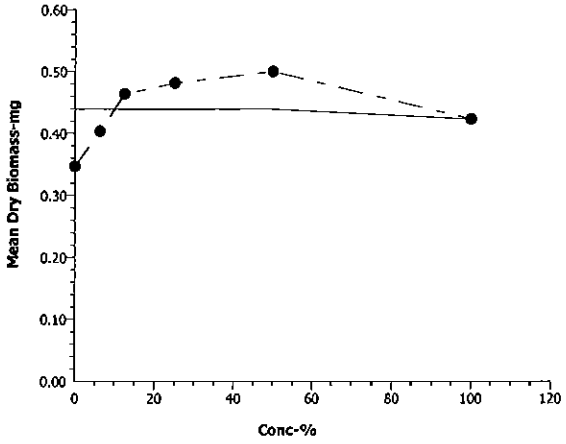
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.3427	0.4367	0.4253	0.4107
12.5		0.4647	0.5093	0.4867	0.3973
25		0.5327	0.4753	0.408	0.5113
50		0.4873	0.5213	0.5587	0.4333
100		0.498	0.368	0.4733	0.3547

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	02-4220-1185	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-2398-1971	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:29	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	17-0212-2577	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:08	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	15-3351-6192	Code:	VCF1110336cf	Client:	VCWPD
Sample Date:	30 Oct-10 07:14	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-MPK		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3019480	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.198	2.802	0.5046	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	74.82	48.77	N/A	1.337	N/A	2.05
EC10	99.64	51.55	N/A	1.004	N/A	1.94
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.8667	0.8	0.9333	0.009938	0.05443	6.28%	0.0%	52	60
6.25		4	0.9167	0.8667	1	0.01165	0.06383	6.96%	-5.77%	55	60
12.5		4	0.95	0.9333	1	0.006086	0.03333	3.51%	-9.62%	57	60
25		4	0.95	0.8667	1	0.01165	0.06383	6.72%	-9.62%	57	60
50		4	0.95	0.8667	1	0.01165	0.06383	6.72%	-9.62%	57	60
100		4	0.8333	0.6667	1	0.02897	0.1587	19.04%	3.85%	50	60

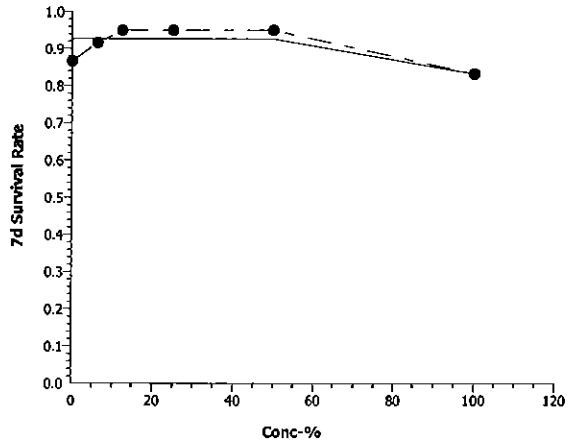
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.8667	1	0.8667	0.9333
12.5		0.9333	1	0.9333	0.9333
25		0.9333	1	0.8667	1
50		1	0.9333	1	0.8667
100		1	0.7333	0.9333	0.6667

Fathead Minnow 7-d Larval Survival and Growth Test | Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-2398-1971	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	17-0212-2577	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:08	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	15-3351-6192	**Code:**	VCF1110336cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 07:14	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-MPK		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	57	57	57	57	57	0	0	0.0%	0
Overall		16	59.81			57	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	325.4	321.6	329.2	312	339	1.875	11.25	3.46%	0
12.5		8	303.8	300.1	307.4	294	321	1.81	10.86	3.58%	0
25		8	309.5	297.9	321.1	286	393	5.726	34.36	11.1%	0
50		8	290.8	288.2	293.3	277	299	1.262	7.573	2.61%	0
100		8	270.5	268.3	272.7	260	279	1.08	6.481	2.4%	0
Overall		48	305.1			260	393				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.992			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	110	110	110	110	110	0	0	0.0%	0
Overall		16	101.9			90	110				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		57	57	57	57	57	57	57	57

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		339	338	339	319	319	318	319	312
12.5		307	319	321	299	295	295	300	294
25		301	308	301	294	393	294	299	286
50		294	297	299	285	285	294	295	277
100		276	277	279	268	265	269	270	260

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		110	110	110	110	110	110	110	110

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MPK
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.336

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

for, Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	02-3939-0910	**Test Type:**	Survival-Reproduction	**Analyst:**	
Start Date:	02 Nov-10 13:08	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	In-House Culture	**Age:**	<24h
Sample ID:	19-4436-6619	**Code:**	VCF1110336cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 07:15	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-MPK		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
04-7541-9222	Reproduction	100	>100	N/A	12.7%	1	Steel Many-One Rank Test
03-7260-6400	Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
21-2027-8885	Reproduction	IC5	16.27	10.3	18.04	6.146	Linear Interpolation (ICPIN)
		IC10	20.04	15.42	23.77	4.989	
		IC15	23.82	20.87	N/A	4.199	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	
09-1979-7023	Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21.5	20.79	22.21	19	25	0.3469	1.9	8.84%	0.0%
6.25		10	24.1	23.39	24.81	21	27	0.3491	1.912	7.93%	-12.09%
12.5		10	23.2	21.68	24.72	19	32	0.7444	4.077	17.57%	-7.91%
25		10	18.5	17.32	19.68	15	26	0.579	3.171	17.14%	13.95%
50		10	18.3	17.9	18.7	17	20	0.1934	1.059	5.79%	14.88%
100		10	20.6	19.57	21.63	14	24	0.5033	2.757	13.38%	4.19%

Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	23	23	19	21	25	20	22	22	21	19
6.25		25	25	25	24	27	21	21	23	25	25
12.5		25	32	20	22	22	19	21	23	20	28
25		18	20	21	17	26	18	16	17	15	17
50		19	18	19	19	17	19	20	17	18	17
100		24	21	20	20	21	19	14	23	22	22

Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-7541-9222	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 10:54	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes
Batch ID:	02-3939-0910	Test Type:	Survival-Reproduction	Analyst:	
Start Date:	02 Nov-10 13:08	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	In-House Culture	Age:	<24h
Sample ID:	19-4436-6619	Code:	VCF1110336cc	Client:	VCWPD
Sample Date:	30 Oct-10 07:15	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-MPK		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	12.7%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	137.5	75	3	0.9999	Non-Significant Effect
		12.5	114.5	75	6	0.9664	Non-Significant Effect
		25*	71.5	75	2	0.0237	Significant Effect
		50*	61.5	75	2	0.0024	Significant Effect
		100	98	75	5	0.6322	Non-Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.449	3.2	0.0168	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	283.9333	56.78667	5	7.986	<0.0001	Significant Effect
Error	384	7.111111	54			
Total	667.9333	63.89778	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	16.63	15.09	0.0053	Unequal Variances
Variances	Mod Levene Equality of Variance	1.106	3.377	0.3680	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9434		0.0077	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.1121	0.1331	0.0583	Normal Distribution
Distribution	D'Agostino Skewness	2.499	2.576	0.0125	Normal Distribution
Distribution	D'Agostino Kurtosis	2.695	2.576	0.0070	Non-normal Distribution
Distribution	D'Agostino Omnibus	13.51	9.21	0.0012	Non-normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21.5	20.78	22.22	19	25	0.3529	1.9	8.84%	0.0%
6.25		10	24.1	23.37	24.83	21	27	0.355	1.912	7.93%	-12.09%
12.5		10	23.2	21.65	24.75	19	32	0.7571	4.077	17.57%	-7.91%
25		10	18.5	17.29	19.71	15	26	0.5888	3.171	17.14%	13.95%
50		10	18.3	17.9	18.7	17	20	0.1967	1.059	5.79%	14.88%
100		10	20.6	19.55	21.65	14	24	0.5119	2.757	13.38%	4.19%

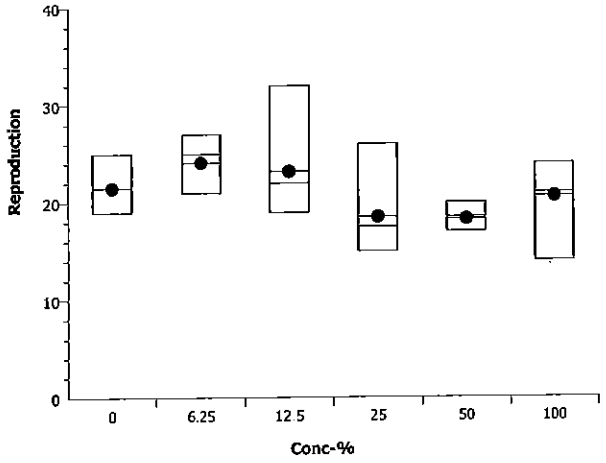
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

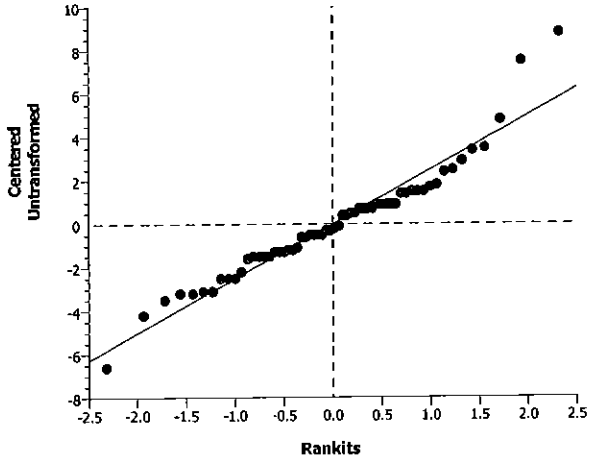
Analysis ID:	04-7541-9222	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 10:54	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	23	23	19	21	25	20	22	22	21	19
6.25		25	25	25	24	27	21	21	23	25	25
12.5		25	32	20	22	22	19	21	23	20	28
25		18	20	21	17	26	18	16	17	15	17
50		19	18	19	19	17	19	20	17	18	17
100		24	21	20	20	21	19	14	23	22	22

Graphics





CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-1979-7023	Endpoint:	Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 10:54	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	02-3939-0910	Test Type:	Survival-Reproduction	Analyst:	
Start Date:	02 Nov-10 13:08	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	In-House Culture	Age:	<24h
Sample ID:	19-4436-6619	Code:	VCF1110336cc	Client:	VCWPD
Sample Date:	30 Oct-10 07:15	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-MPK		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	4140327	280	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test

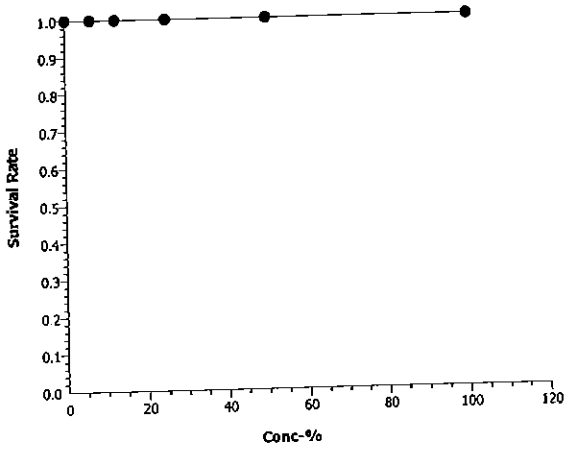
Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 09-1979-7023
Analyzed: 02 Dec-10 10:54

Endpoint: Survival Rate
Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0
Official Results: Yes

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	21-2027-8885	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 10:54	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	02-3939-0910	Test Type:	Survival-Reproduction	Analyst:	
Start Date:	02 Nov-10 13:08	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d	Source:	In-House Culture	Age:	<24h
Sample ID:	19-4436-6619	Code:	VCF1110336cc	Client:	VCWPD
Sample Date:	30 Oct-10 07:15	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-MPK		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	4140327	280	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	16.27	10.3	18.04	6.146	5.543	9.713
IC10	20.04	15.42	23.77	4.989	4.208	6.484
IC15	23.82	20.87	N/A	4.199	N/A	4.791
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	21.5	19	25	0.3469	1.9	8.84%	0.0%
6.25		10	24.1	21	27	0.3491	1.912	7.93%	-12.09%
12.5		10	23.2	19	32	0.7444	4.077	17.57%	-7.91%
25		10	18.5	15	26	0.579	3.171	17.14%	13.95%
50		10	18.3	17	20	0.1934	1.059	5.79%	14.88%
100		10	20.6	14	24	0.5033	2.757	13.38%	4.19%

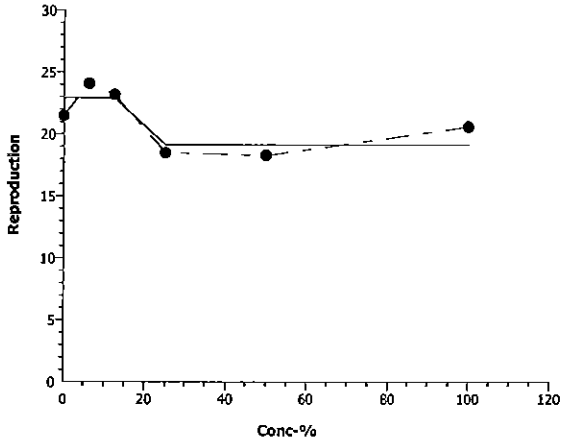
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	23	23	19	21	25	20	22	22	21	19
6.25		25	25	25	24	27	21	21	23	25	25
12.5		25	32	20	22	22	19	21	23	20	28
25		18	20	21	17	26	18	16	17	15	17
50		19	18	19	19	17	19	20	17	18	17
100		24	21	20	20	21	19	14	23	22	22

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	21-2027-8885	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 10:54	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	03-7260-6400	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 10:54	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	02-3939-0910	**Test Type:**	Survival-Reproduction	**Analyst:**	
Start Date:	02 Nov-10 13:08	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	In-House Culture	**Age:**	<24h
Sample ID:	19-4436-6619	**Code:**	VCF1110336cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 07:15	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-MPK		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

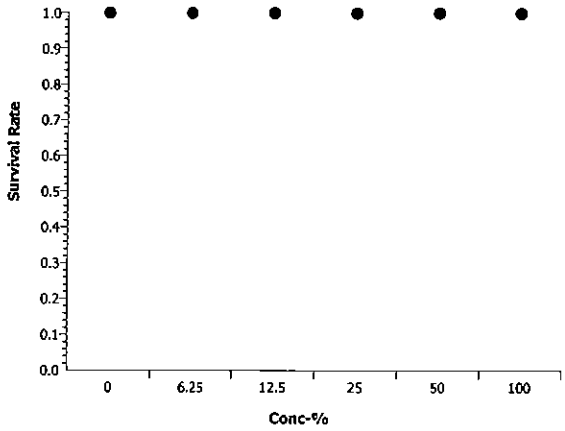
Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Graphics



CETIS Measurement Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	02-3939-0910	**Test Type:**	Survival-Reproduction	**Analyst:**	
Start Date:	02 Nov-10 13:08	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d	**Source:**	In-House Culture	**Age:**	<24h
Sample ID:	19-4436-6619	**Code:**	VCF1110336cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 07:15	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-MPK		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	57	57	57	57	57	0	0	0.0%	0
Overall		16	59.81			57	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	325.4	321.6	329.2	312	339	1.875	11.25	3.46%	0
12.5		8	303.8	300.1	307.4	294	321	1.81	10.86	3.58%	0
25		8	309.5	297.9	321.1	286	393	5.726	34.36	11.1%	0
50		8	290.8	288.2	293.3	277	299	1.262	7.573	2.61%	0
100		8	270.5	268.3	272.7	260	279	1.08	6.481	2.4%	0
Overall		48	305.1			260	393				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.992			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	110	110	110	110	110	0	0	0.0%	0
Overall		16	101.9			90	110				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		57	57	57	57	57	57	57	57

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		339	338	339	319	319	318	319	312
12.5		307	319	321	299	295	295	300	294
25		301	308	301	294	393	294	299	286
50		294	297	299	285	285	294	295	277
100		276	277	279	268	265	269	270	260

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		110	110	110	110	110	110	110	110

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MPK
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.336

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 25.00 %
TUc = 4.00

IC25 = 27.63.00 %
IC50 = 41.08 %

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	21-1183-3001	Test Type:	Cell Growth	Analyst:	
Start Date:	02 Nov-10 13:19	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	06 Nov-10 13:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	96h	Source:	Aquatic Biosystems, CO	Age:	

Sample ID:	07-1350-6204	Code:	VCF1110336s	Client:	VCWPD
Sample Date:	30 Oct-10 07:14	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Nov-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-MPK		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
15-1221-5978	Cell Density	25	50	35.36	11.54%	4	Steel Many-One Rank Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
04-0071-1941	Cell Density	IC5	15.61	14.88	16.63	6.407	Linear Interpolation (ICPIN)
		IC10	18.72	17.4	20.77	5.343	
		IC15	21.82	19.85	24.9	4.582	
		IC20	24.93	22.3	27.82	4.011	
		IC25	27.63	25.05	30.41	3.619	
		IC40	35.7	33.46	37.7	2.801	
		IC50	41.08	39.18	42.66	2.434	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
04-0071-1941	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
15-1221-5978	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
04-0071-1941	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
15-1221-5978	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
15-1221-5978	Cell Density	PMSD	0.1154	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.086E+6	1.136E+6	1.019E+6	1.179E+6	1.219E+4	6.675E+4	6.01%	0.0%
6.25		4	1.710E+6	1.667E+6	1.754E+6	1.553E+6	1.814E+6	2.120E+4	1.161E+5	6.79%	-53.97%
12.5		4	1.518E+6	1.474E+6	1.562E+6	1.420E+6	1.687E+6	2.140E+4	1.172E+5	7.72%	-36.66%
25		4	1.156E+6	1.140E+6	1.171E+6	1.116E+6	1.206E+6	7.432E+3	4.071E+4	3.52%	-4.03%
50		4	4.833E+5	4.737E+5	4.928E+5	4.590E+5	5.140E+5	4.651E+3	2.547E+4	5.27%	56.49%
100		4	2.130E+5	2.110E+5	2.150E+5	2.060E+5	2.190E+5	9.775E+2	5.354E+3	2.51%	80.82%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.779E+6	1.814E+6	1.553E+6	1.695E+6
12.5		1.499E+6	1.687E+6	1.420E+6	1.466E+6
25		1.170E+6	1.130E+6	1.206E+6	1.116E+6
50		4.660E+5	5.140E+5	4.940E+5	4.590E+5
100		2.140E+5	2.060E+5	2.190E+5	2.130E+5

CETIS Analytical Report

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	15-1221-5978	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:52	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	21-1183-3001	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:19	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	07-1350-6204	**Code:**	VCF1110336s	**Client:**	VCWPD
Sample Date:	30 Oct-10 07:14	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Nov-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-MPK		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	25	50	35.36	4	11.54%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	26	10	0	0.9999	Non-Significant Effect
		12.5	26	10	0	0.9999	Non-Significant Effect
		25	21	10	0	0.9777	Non-Significant Effect
		50*	10	10	0	0.0417	Significant Effect
		100*	10	10	0	0.0417	Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1154	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.537	2.802	0.1537	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	6.758241E+12	1.351648E+12	5	238.4	<0.0001	Significant Effect
Error	1.020493E+11	5669403000	18			
Total	6.86029E+12	1.357318E+12	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	19.05	15.09	0.0019	Unequal Variances
Variances	Mod Levene Equality of Variance	1.598	4.248	0.2110	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9578		0.3958	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1638	0.2056	0.0950	Normal Distribution
Distribution	D'Agostino Skewness	0.3251	2.576	0.7451	Normal Distribution
Distribution	D'Agostino Kurtosis	1.601	2.576	0.1093	Normal Distribution
Distribution	D'Agostino Omnibus	2.669	9.21	0.2632	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.085E+6	1.136E+6	1.019E+6	1.179E+6	1.239E+4	6.674E+4	6.01%	0.0%
6.25		4	1.710E+6	1.666E+6	1.754E+6	1.553E+6	1.814E+6	2.156E+4	1.161E+5	6.79%	-53.97%
12.5		4	1.518E+6	1.473E+6	1.563E+6	1.420E+6	1.687E+6	2.177E+4	1.172E+5	7.72%	-36.66%
25		4	1.156E+6	1.140E+6	1.171E+6	1.116E+6	1.206E+6	7.559E+3	4.071E+4	3.52%	-4.03%
50		4	4.833E+5	4.736E+5	4.929E+5	4.590E+5	5.140E+5	4.730E+3	2.547E+4	5.27%	56.49%
100		4	2.130E+5	2.110E+5	2.150E+5	2.060E+5	2.190E+5	9.943E+2	5.354E+3	2.51%	80.82%

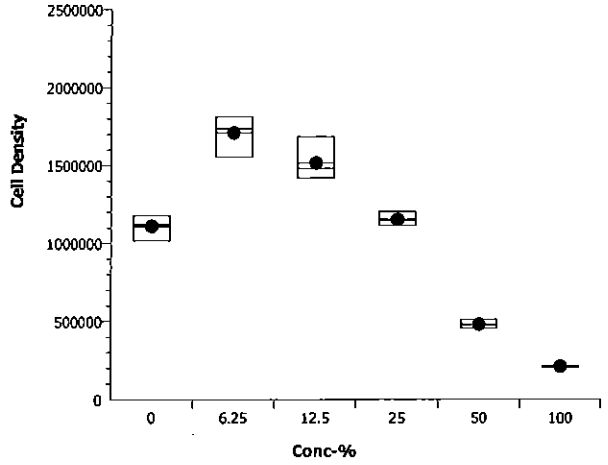
Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

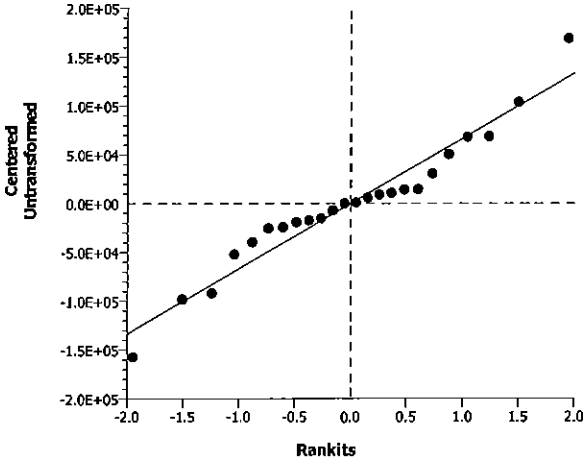
Analysis ID:	15-1221-5978	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:52	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.779E+6	1.814E+6	1.553E+6	1.695E+6
12.5		1.499E+6	1.687E+6	1.420E+6	1.466E+6
25		1.170E+6	1.130E+6	1.206E+6	1.116E+6
50		4.660E+5	5.140E+5	4.940E+5	4.590E+5
100		2.140E+5	2.060E+5	2.190E+5	2.130E+5

Graphics





Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-0071-1941	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 14:52	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	21-1183-3001	Test Type:	Cell Growth	Analyst:	
Start Date:	02 Nov-10 13:19	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	06 Nov-10 13:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	96h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	07-1350-6204	Code:	VCF1110336s	Client:	VCWPD
Sample Date:	30 Oct-10 07:14	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Nov-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-MPK		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	140176	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.537	2.802	0.1537	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	15.61	14.88	16.63	6.407	6.012	6.722
IC10	18.72	17.4	20.77	5.343	4.815	5.746
IC15	21.82	19.85	24.9	4.582	4.016	5.037
IC20	24.93	22.3	27.82	4.011	3.595	4.483
IC25	27.63	25.05	30.41	3.619	3.288	3.992
IC40	35.7	33.46	37.7	2.801	2.653	2.989
IC50	41.08	39.18	42.66	2.434	2.344	2.553

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.019E+6	1.179E+6	1.219E+4	6.674E+4	6.01%	0.0%
6.25		4	1.710E+6	1.553E+6	1.814E+6	2.120E+4	1.161E+5	6.79%	-53.97%
12.5		4	1.518E+6	1.420E+6	1.687E+6	2.140E+4	1.172E+5	7.72%	-36.66%
25		4	1.156E+6	1.116E+6	1.206E+6	7.432E+3	4.071E+4	3.52%	-4.03%
50		4	4.833E+5	4.590E+5	5.140E+5	4.651E+3	2.547E+4	5.27%	56.49%
100		4	2.130E+5	2.060E+5	2.190E+5	9.775E+2	5.354E+3	2.51%	80.82%

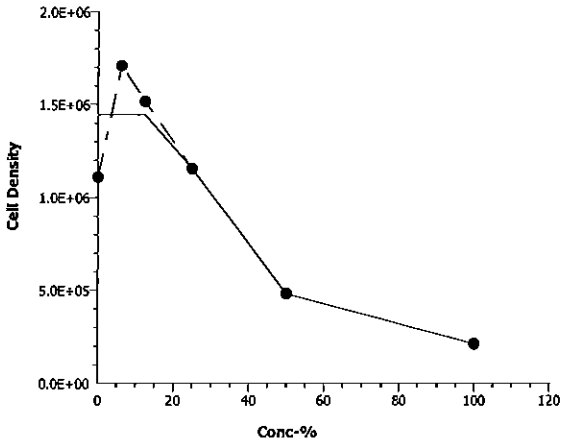
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.779E+6	1.814E+6	1.553E+6	1.695E+6
12.5		1.499E+6	1.687E+6	1.420E+6	1.466E+6
25		1.170E+6	1.130E+6	1.206E+6	1.116E+6
50		4.660E+5	5.140E+5	4.940E+5	4.590E+5
100		2.140E+5	2.060E+5	2.190E+5	2.130E+5

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-0071-1941	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:52	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	21-1183-3001	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:19	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	07-1350-6204	**Code:**	VCF1110336s	**Client:**	VCWPD
Sample Date:	30 Oct-10 07:14	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Nov-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-MPK		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	75			75	75	0	0	0.0%	0
12.5		1	72			72	72	0	0	0.0%	0
25		1	65			65	65	0	0	0.0%	0
50		1	60			60	60	0	0	0.0%	0
100		1	42			42	42	0	0	0.0%	0
Overall		6	63.83			42	75				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	424.6	418.6	430.6	404	453	2.964	17.78	4.19%	0
12.5		5	388	387.4	388.6	385	390	0.3118	1.871	0.48%	0
25		5	382.2	381.5	382.9	379	384	0.3206	1.924	0.5%	0
50		5	373.4	372.1	374.7	368	378	0.6412	3.847	1.03%	0
100		5	359	357	361	352	367	0.9789	5.874	1.64%	0
Overall		30	394			352	453				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	114			114	114	0	0	0.0%	0
12.5		1	118			118	118	0	0	0.0%	0
25		1	118			118	118	0	0	0.0%	0
50		1	95			95	95	0	0	0.0%	0
100		1	75			75	75	0	0	0.0%	0
Overall		6	105.8			75	118				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		75
12.5		72
25		65
50		60
100		42

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		404	425	420	421	453
12.5		388	389	388	385	390
25		383	383	382	379	384
50		373	376	372	368	378
100		359	362	352	355	367

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		114
12.5		118
25		118
50		95
100		75

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-THO
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.337

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	02-5231-5156	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:09	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	01-1597-0268	**Code:**	VCF1110337cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-THO		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
06-1529-8471	7d Survival Rate	100	>100	N/A	19.49%	1	Dunnett's Multiple Comparison Test
03-6700-7808	Mean Dry Biomass-mg	100	>100	N/A	22.83%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
19-4806-8492	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
05-3746-6806	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
06-1529-8471	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits
19-4806-8492	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits
03-6700-7808	Mean Dry Biomass-mg	Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
05-3746-6806	Mean Dry Biomass-mg	Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
03-6700-7808	Mean Dry Biomass-mg	PMSD	0.2283	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.8667	0.8463	0.887	0.8	0.9333	0.009938	0.05443	6.28%	0.0%
6.25		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	-11.54%
12.5		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-13.46%
25		4	0.9167	0.8695	0.9638	0.7333	1	0.02304	0.1262	13.77%	-5.77%
50		4	0.9167	0.8853	0.948	0.8	1	0.01532	0.08389	9.15%	-5.77%
100		4	0.9	0.8679	0.9321	0.8	1	0.01571	0.08607	9.56%	-3.85%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.3286	0.3657	0.2987	0.4147	0.009084	0.04976	14.33%	0.0%
6.25		4	0.4422	0.4266	0.4577	0.3947	0.4833	0.007592	0.04158	9.41%	-27.36%
12.5		4	0.4922	0.4807	0.5037	0.4527	0.5227	0.005629	0.03083	6.27%	-41.77%
25		4	0.5072	0.4817	0.5326	0.408	0.5553	0.01246	0.06823	13.45%	-46.09%
50		4	0.4913	0.4723	0.5103	0.4507	0.5587	0.009286	0.05086	10.35%	-41.53%
100		4	0.4928	0.4836	0.5021	0.466	0.526	0.004522	0.02477	5.03%	-41.96%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.9333	1	1	0.9333
12.5		1	1	1	0.9333
25		1	1	0.9333	0.7333
50		1	0.9333	0.9333	0.8
100		0.8667	0.8	0.9333	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.47	0.4833	0.3947	0.4207
12.5		0.4527	0.484	0.5093	0.5227
25		0.5487	0.5167	0.5553	0.408
50		0.5027	0.4507	0.5587	0.4533
100		0.49	0.466	0.526	0.4893

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	03-6700-7808	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:39	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	02-5231-5156	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:09	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	01-1597-0268	Code:	VCF1110337cf	Client:	VCWPD
Sample Date:	30 Oct-10 05:00	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-THO		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	22.83%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-2.885	2.407	0.07926	0.9999	Non-Significant Effect
		12.5	-4.404	2.407	0.07926	1.0000	Non-Significant Effect
		25	-4.859	2.407	0.07926	1.0000	Non-Significant Effect
		50	-4.378	2.407	0.07926	1.0000	Non-Significant Effect
		100	-4.424	2.407	0.07926	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
PMSD	0.2283	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.407	2.802	0.2498	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.07336454	0.01467291	5	6.766	0.0010	Significant Effect
Error	0.03903366	0.002168536	18			
Total	0.1123982	0.01684145	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.296	15.09	0.6545	Equal Variances
Variances	Mod Levene Equality of Variance	0.5401	4.248	0.7435	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9724		0.7253	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.0837	0.2056	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.6985	2.576	0.4848	Normal Distribution
Distribution	D'Agostino Kurtosis	0.1313	2.576	0.8956	Normal Distribution
Distribution	D'Agostino Omnibus	0.5052	9.21	0.7768	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.3282	0.3661	0.2987	0.4147	0.009239	0.04976	14.33%	0.0%
6.25		4	0.4422	0.4263	0.458	0.3947	0.4833	0.007722	0.04158	9.41%	-27.36%
12.5		4	0.4922	0.4804	0.5039	0.4527	0.5227	0.005725	0.03083	6.27%	-41.77%
25		4	0.5072	0.4812	0.5331	0.408	0.5553	0.01267	0.06823	13.45%	-46.09%
50		4	0.4913	0.472	0.5107	0.4507	0.5587	0.009444	0.05086	10.35%	-41.53%
100		4	0.4928	0.4834	0.5023	0.466	0.526	0.004599	0.02477	5.03%	-41.96%

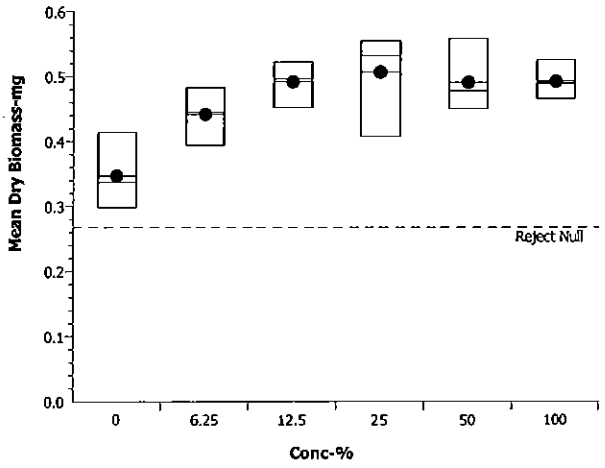
Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

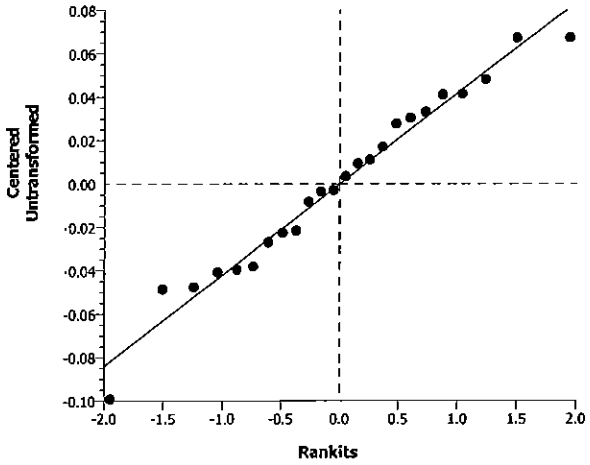
Analysis ID:	03-6700-7808	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:39	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.47	0.4833	0.3947	0.4207
12.5		0.4527	0.484	0.5093	0.5227
25		0.5487	0.5167	0.5553	0.408
50		0.5027	0.4507	0.5587	0.4533
100		0.49	0.466	0.526	0.4893

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	06-1529-8471	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:39	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	02-5231-5156	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:09	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	01-1597-0268	Code:	VCF1110337cf	Client:	VCWPD
Sample Date:	30 Oct-10 05:00	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-THO		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	19.49%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-1.944	2.407	0.214	0.9989	Non-Significant Effect
		12.5	-2.314	2.407	0.214	0.9997	Non-Significant Effect
		25	-1.152	2.407	0.214	0.9886	Non-Significant Effect
		50	-1.004	2.407	0.214	0.9829	Non-Significant Effect
		100	-0.6871	2.407	0.214	0.9612	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.49	2.802	0.1841	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.1117868	0.02235735	5	1.414	0.2663	Non-Significant Effect
Error	0.2845358	0.01580754	18			
Total	0.3963225	0.0381649	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	4.76	15.09	0.4458	Equal Variances
Variances	Mod Levene Equality of Variance	0.8488	4.248	0.5332	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9619		0.4767	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1462	0.2056	0.2014	Normal Distribution
Distribution	D'Agostino Skewness	1.355	2.576	0.1755	Normal Distribution
Distribution	D'Agostino Kurtosis	0.6085	2.576	0.5428	Normal Distribution
Distribution	D'Agostino Omnibus	2.206	9.21	0.3319	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	06-1529-8471	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:39	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.8667	0.846	0.8874	0.8	0.9333	0.01011	0.05443	6.28%	0.0%
6.25		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	-11.54%
12.5		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-13.46%
25		4	0.9167	0.8687	0.9647	0.7333	1	0.02343	0.1262	13.77%	-5.77%
50		4	0.9167	0.8848	0.9486	0.8	1	0.01558	0.08389	9.15%	-5.77%
100		4	0.9	0.8673	0.9327	0.8	1	0.01598	0.08607	9.56%	-3.85%

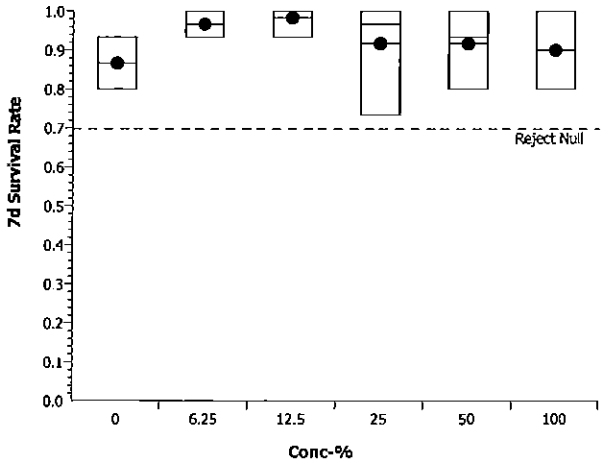
Angular (Corrected) Transformed Summary

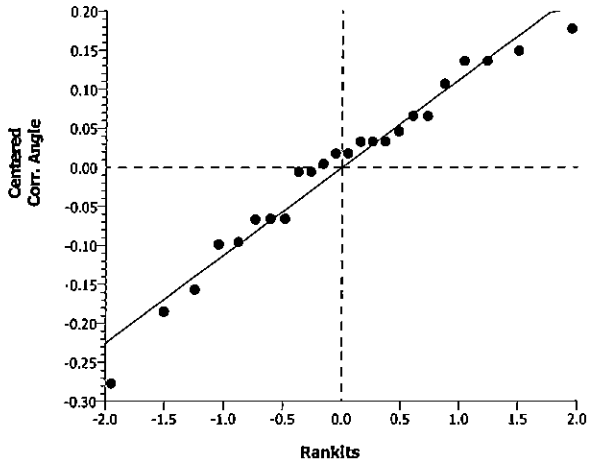
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.203	1.171	1.234	1.107	1.31	0.0154	0.08293	6.9%	0.0%
6.25		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	-14.37%
12.5		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-17.1%
25		4	1.305	1.231	1.379	1.028	1.441	0.03617	0.1948	14.93%	-8.52%
50		4	1.292	1.239	1.344	1.107	1.441	0.02562	0.138	10.68%	-7.42%
100		4	1.264	1.209	1.319	1.107	1.441	0.02683	0.1445	11.43%	-5.08%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.9333	1	1	0.9333
12.5		1	1	1	0.9333
25		1	1	0.9333	0.7333
50		1	0.9333	0.9333	0.8
100		0.8667	0.8	0.9333	1

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-3746-6806	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:39	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	02-5231-5156	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:09	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	01-1597-0268	Code:	VCF1110337cf	Client:	VCWPD
Sample Date:	30 Oct-10 05:00	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7747401	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.407	2.802	0.2498	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.2987	0.4147	0.009084	0.04976	14.33%	0.0%
6.25		4	0.4422	0.3947	0.4833	0.007592	0.04158	9.41%	-27.36%
12.5		4	0.4922	0.4527	0.5227	0.005629	0.03083	6.27%	-41.77%
25		4	0.5072	0.408	0.5553	0.01246	0.06823	13.45%	-46.09%
50		4	0.4913	0.4507	0.5587	0.009286	0.05086	10.35%	-41.53%
100		4	0.4928	0.466	0.526	0.004522	0.02477	5.03%	-41.96%

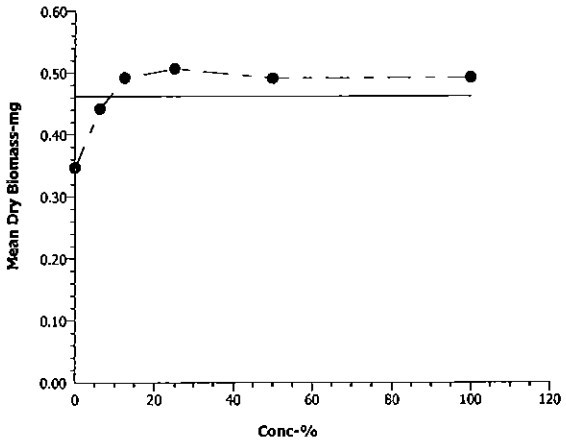
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.47	0.4833	0.3947	0.4207
12.5		0.4527	0.484	0.5093	0.5227
25		0.5487	0.5167	0.5553	0.408
50		0.5027	0.4507	0.5587	0.4533
100		0.49	0.466	0.526	0.4893

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	05-3746-6806	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:39	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	19-4806-8492	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:39	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	02-5231-5156	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:09	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	01-1597-0268	Code:	VCF1110337cf	Client:	VCWPD
Sample Date:	30 Oct-10 05:00	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7747401	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.49	2.802	0.1841	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.8667	0.8	0.9333	0.009938	0.05443	6.28%	0.0%	52	60
6.25		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	-11.54%	58	60
12.5		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-13.46%	59	60
25		4	0.9167	0.7333	1	0.02304	0.1262	13.77%	-5.77%	55	60
50		4	0.9167	0.8	1	0.01532	0.08389	9.15%	-5.77%	55	60
100		4	0.9	0.8	1	0.01571	0.08607	9.56%	-3.85%	54	60

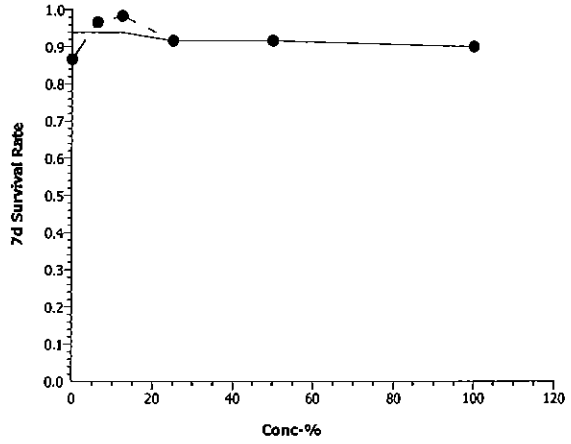
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.9333	1	1	0.9333
12.5		1	1	1	0.9333
25		1	1	0.9333	0.7333
50		1	0.9333	0.9333	0.8
100		0.8667	0.8	0.9333	1

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	19-4806-8492	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:39	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	02-5231-5156	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:09	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:00	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	01-1597-0268	Code:	VCF1110337cf	Client:	VCWPD
Sample Date:	30 Oct-10 05:00	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-THO		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	57	57	57	57	57	0	0	0.0%	0
Overall		16	59.81			57	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	299.9	298.4	301.3	295	309	0.7207	4.324	1.44%	0
12.5		8	293.6	292.8	294.4	290	296	0.3877	2.326	0.79%	0
25		8	282.9	281.7	284.1	278	288	0.6005	3.603	1.27%	0
50		8	255.5	254.6	256.4	250	258	0.4272	2.563	1.0%	0
100		8	205.8	202.6	208.9	191	222	1.565	9.392	4.57%	0
Overall		48	278			191	342				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.992			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	85	85	85	85	85	0	0	0.0%	0
Overall		16	89.44			85	98				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		57	57	57	57	57	57	57	57

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		302	309	301	297	299	295	299	297
12.5		296	291	296	292	295	294	295	290
25		281	288	284	280	282	282	288	278
50		250	256	257	255	258	255	255	258
100		191	198	207	204	210	202	212	222

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		85	85	85	85	85	85	85	85

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-THO
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.337

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

for: Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	19-8989-7380	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:09	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:15	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	14-4124-3845	**Code:**	VCF1110337cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Nov-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-THO		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
08-0713-2393	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
18-2350-2038	Reproduction	100	>100	N/A	9.53%	1	Steel Many-One Rank Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
04-7822-9511	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
19-6581-6906	Reproduction	IC5	16.55	11.27	17.83	6.044	Linear Interpolation (ICPIN)
		IC10	20.59	16.16	23.16	4.857	
		IC15	24.64	20.79	N/A	4.059	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
04-7822-9511	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
08-0713-2393	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
18-2350-2038	Reproduction	Control Resp	22.7	15 - NL	Yes	Result Within Limits
19-6581-6906	Reproduction	Control Resp	22.7	15 - NL	Yes	Result Within Limits
18-2350-2038	Reproduction	PMSD	0.09531	0.13 - 0.47	Yes	Result Below Limit

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	22.7	21.91	23.49	20	27	0.3854	2.111	9.3%	0.0%
6.25		10	23.9	22.75	25.05	21	32	0.5608	3.071	12.85%	-5.29%
12.5		10	23.3	22.69	23.91	22	26	0.2988	1.636	7.02%	-2.64%
25		10	18.2	17.42	18.98	15	22	0.383	2.098	11.53%	19.82%
50		10	19.6	19.24	19.96	18	21	0.1764	0.9661	4.93%	13.66%
100		10	21.3	20.47	22.13	18	25	0.4041	2.214	10.39%	6.17%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	25	22	23	22	24	20	21	27	22	21
6.25		32	25	23	22	24	23	24	23	22	21
12.5		24	26	22	22	22	22	26	23	22	24
25		22	17	17	21	17	17	18	19	15	19
50		21	21	19	18	19	19	19	20	20	20
100		20	25	24	21	19	21	20	22	23	18

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-2350-2038	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 13:57	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes
Batch ID:	19-8989-7380	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:09	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:15	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	14-4124-3845	Code:	VCF1110337cc	Client:	VCWPD
Sample Date:	30 Oct-10 05:00	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Nov-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-THO		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	9.53%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	119	75	5	0.9875	Non-Significant Effect
		12.5	117	75	3	0.9802	Non-Significant Effect
		25*	61.5	75	2	0.0024	Significant Effect
		50*	60.5	75	2	0.0018	Significant Effect
		100	87	75	6	0.2614	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	22.7	15 - NL	Yes	Result Within Limits
PMSD	0.09531	0.13 - 0.47	Yes	Result Below Limit

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	4.006	3.2	0.0010	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	249.8	49.96	5	11.19	<0.0001	Significant Effect
Error	241.2	4.466667	54			
Total	491	54.42667	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	10.82	15.09	0.0550	Equal Variances
Variances	Mod Levene Equality of Variance	0.4667	3.377	0.7993	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9085		0.0003	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.1333	0.1331	0.0098	Non-normal Distribution
Distribution	D'Agostino Skewness	3.791	2.576	0.0001	Non-normal Distribution
Distribution	D'Agostino Kurtosis	3.022	2.576	0.0025	Non-normal Distribution
Distribution	D'Agostino Omnibus	23.5	9.21	<0.0001	Non-normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	22.7	21.9	23.5	20	27	0.392	2.111	9.3%	0.0%
6.25		10	23.9	22.73	25.07	21	32	0.5703	3.071	12.85%	-5.29%
12.5		10	23.3	22.68	23.92	22	26	0.3039	1.636	7.02%	-2.64%
25		10	18.2	17.4	19	15	22	0.3895	2.098	11.53%	19.82%
50		10	19.6	19.23	19.97	18	21	0.1794	0.9661	4.93%	13.66%
100		10	21.3	20.46	22.14	18	25	0.4111	2.214	10.39%	6.17%

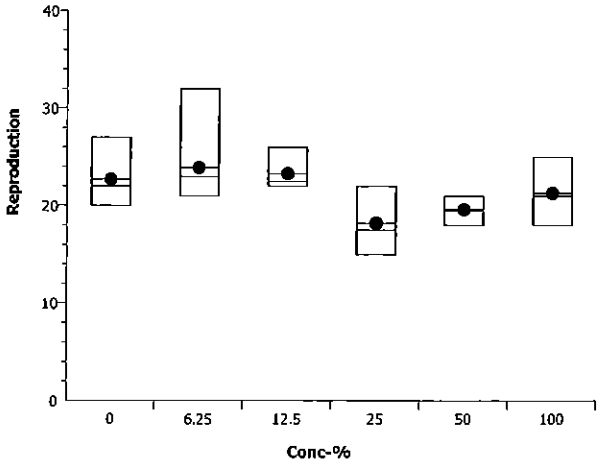
Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

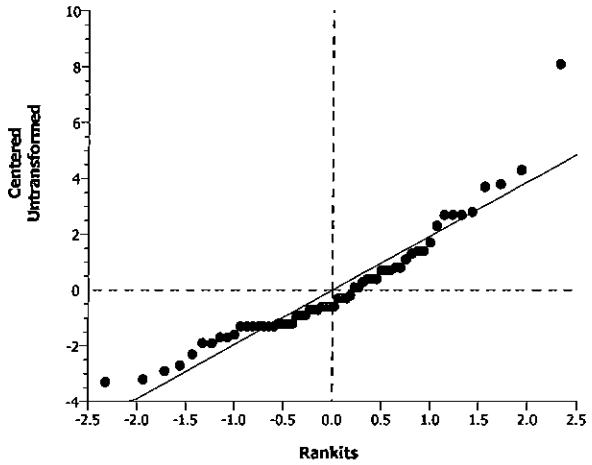
Analysis ID:	18-2350-2038	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 13:57	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	25	22	23	22	24	20	21	27	22	21
6.25		32	25	23	22	24	23	24	23	22	21
12.5		24	26	22	22	22	22	26	23	22	24
25		22	17	17	21	17	17	18	19	15	19
50		21	21	19	18	19	19	19	20	20	20
100		20	25	24	21	19	21	20	22	23	18

Graphics





Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	19-6581-6906	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 13:57	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	19-8989-7380	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:09	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:15	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	14-4124-3845	**Code:**	VCF1110337cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Nov-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	22.7	15 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	16.55	11.27	17.83	6.044	5.609	8.872
IC10	20.59	16.16	23.16	4.857	4.318	6.19
IC15	24.64	20.79	N/A	4.059	N/A	4.811
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	22.7	20	27	0.3854	2.111	9.3%	0.0%
6.25		10	23.9	21	32	0.5608	3.071	12.85%	-5.29%
12.5		10	23.3	22	26	0.2988	1.636	7.02%	-2.64%
25		10	18.2	15	22	0.383	2.098	11.53%	19.82%
50		10	19.6	18	21	0.1764	0.9661	4.93%	13.66%
100		10	21.3	18	25	0.4041	2.214	10.39%	6.17%

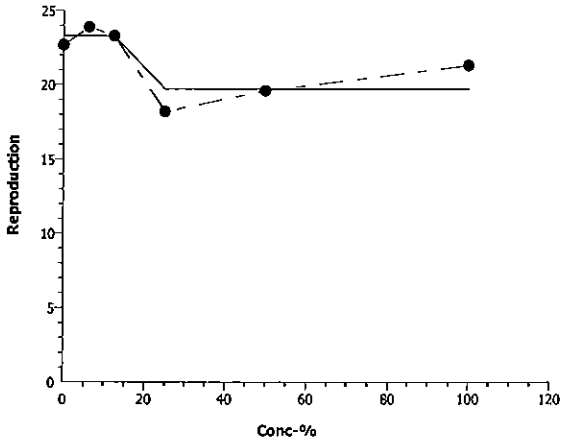
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	25	22	23	22	24	20	21	27	22	21
6.25		32	25	23	22	24	23	24	23	22	21
12.5		24	26	22	22	22	22	26	23	22	24
25		22	17	17	21	17	17	18	19	15	19
50		21	21	19	18	19	19	19	20	20	20
100		20	25	24	21	19	21	20	22	23	18

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-6581-6906	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 13:57	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-7822-9511	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 13:57	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	19-8989-7380	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:09	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:15	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	14-4124-3845	**Code:**	VCF1110337cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Nov-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

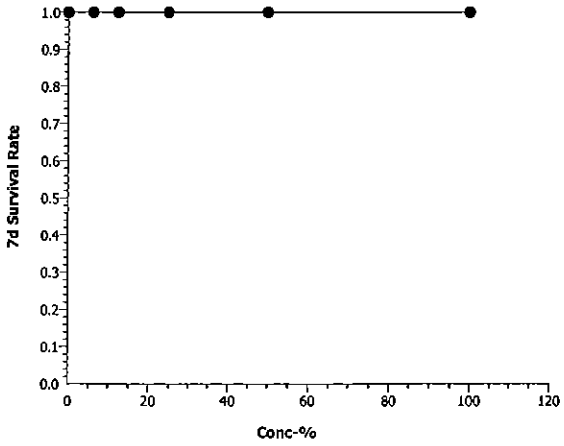
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	04-7822-9511	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 13:57	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	08-0713-2393	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 13:57	Analysis:	STP 2x2 Contingency Tables	Official Results:	Yes
Batch ID:	19-8989-7380	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:09	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:15	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	14-4124-3845	Code:	VCF1110337cc	Client:	VCWPD
Sample Date:	30 Oct-10 05:00	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Nov-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-THO		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

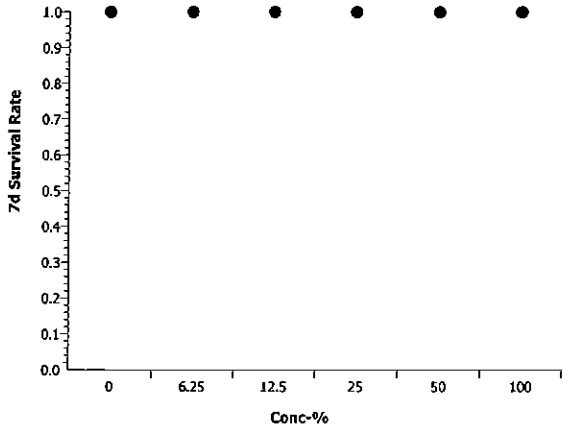
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	08-0713-2393	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 13:57	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	19-8989-7380	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:09	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:15	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	14-4124-3845	**Code:**	VCF1110337cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Nov-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-THO		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	57	57	57	57	57	0	0	0.0%	0
Overall		16	59.81			57	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	299.9	298.4	301.3	295	309	0.7207	4.324	1.44%	0
12.5		8	293.6	292.8	294.4	290	296	0.3877	2.326	0.79%	0
25		8	282.9	281.7	284.1	278	288	0.6005	3.603	1.27%	0
50		8	255.5	254.6	256.4	250	258	0.4272	2.563	1.0%	0
100		8	205.8	202.6	208.9	191	222	1.565	9.392	4.57%	0
Overall		48	278			191	342				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.992			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	85	85	85	85	85	0	0	0.0%	0
Overall		16	89.44			85	98				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		57	57	57	57	57	57	57	57

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		302	309	301	297	299	295	299	297
12.5		296	291	296	292	295	294	295	290
25		281	288	284	280	282	282	288	278
50		250	256	257	255	258	255	255	258
100		191	198	207	204	210	202	212	222

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		85	85	85	85	85	85	85	85

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-THO
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.337

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	07-8389-4006	Test Type:	Cell Growth	Analyst:	
Start Date:	02 Nov-10 13:20	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	06 Nov-10 13:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	96h	Source:	Aquatic Biosystems, CO	Age:	

Sample ID:	19-9755-3521	Code:	VCF1110337s	Client:	VCWPD
Sample Date:	30 Oct-10 05:00	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-THO		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
08-2005-7513	Cell Density	100	>100	N/A	17.26%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
06-6261-1024	Cell Density	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
06-6261-1024	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
08-2005-7513	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
06-6261-1024	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
08-2005-7513	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
08-2005-7513	Cell Density	PMSD	0.1726	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.086E+6	1.136E+6	1.019E+6	1.179E+6	1.219E+4	6.675E+4	6.01%	0.0%
6.25		4	1.680E+6	1.655E+6	1.705E+6	1.611E+6	1.754E+6	1.223E+4	6.697E+4	3.99%	-51.23%
12.5		4	1.831E+6	1.790E+6	1.873E+6	1.740E+6	1.986E+6	2.039E+4	1.117E+5	6.1%	-64.87%
25		4	1.895E+6	1.845E+6	1.944E+6	1.746E+6	2.014E+6	2.401E+4	1.315E+5	6.94%	-70.56%
50		4	1.893E+6	1.840E+6	1.946E+6	1.706E+6	2.018E+6	2.603E+4	1.426E+5	7.53%	-70.43%
100		4	2.098E+6	2.049E+6	2.147E+6	1.963E+6	2.247E+6	2.388E+4	1.308E+5	6.24%	-88.86%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.637E+6	1.717E+6	1.754E+6	1.611E+6
12.5		1.986E+6	1.839E+6	1.760E+6	1.740E+6
25		2.014E+6	1.996E+6	1.746E+6	1.822E+6
50		2.018E+6	1.859E+6	1.706E+6	1.989E+6
100		2.164E+6	2.017E+6	2.247E+6	1.963E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	08-2005-7513	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:58	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	07-8389-4006	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:20	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	19-9755-3521	**Code:**	VCF1110337s	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-THO		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	17.26%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-7.143	2.407	191700	1.0000	Non-Significant Effect
		12.5	-9.045	2.407	191700	1.0000	Non-Significant Effect
		25	-9.839	2.407	191700	1.0000	Non-Significant Effect
		50	-9.82	2.407	191700	1.0000	Non-Significant Effect
		100	-12.39	2.407	191700	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1726	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.876	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	2.329713E+12	4.659427E+11	5	36.72	<0.0001	Significant Effect
Error	2.2843E+11	12690560000	18			
Total	2.558143E+12	4.786332E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	2.722	15.09	0.7428	Equal Variances
Variances	Mod Levene Equality of Variance	1.375	4.248	0.2798	Equal Variances
Distribution	Shapiro-Wilk Normality	0.957		0.3806	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1299	0.2056	0.3654	Normal Distribution
Distribution	D'Agostino Skewness	0.1951	2.576	0.8453	Normal Distribution
Distribution	D'Agostino Kurtosis	1.678	2.576	0.0934	Normal Distribution
Distribution	D'Agostino Omnibus	2.853	9.21	0.2402	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.085E+6	1.136E+6	1.019E+6	1.179E+6	1.239E+4	6.674E+4	6.01%	0.0%
6.25		4	1.680E+6	1.654E+6	1.705E+6	1.611E+6	1.754E+6	1.244E+4	6.697E+4	3.99%	-51.23%
12.5		4	1.831E+6	1.789E+6	1.874E+6	1.740E+6	1.986E+6	2.074E+4	1.117E+5	6.1%	-64.87%
25		4	1.895E+6	1.844E+6	1.945E+6	1.746E+6	2.014E+6	2.442E+4	1.315E+5	6.94%	-70.56%
50		4	1.893E+6	1.839E+6	1.947E+6	1.706E+6	2.018E+6	2.647E+4	1.426E+5	7.53%	-70.43%
100		4	2.098E+6	2.048E+6	2.148E+6	1.963E+6	2.247E+6	2.429E+4	1.308E+5	6.24%	-88.86%

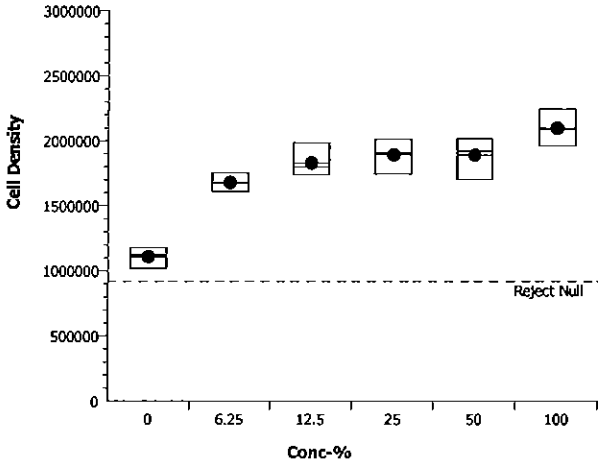
Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

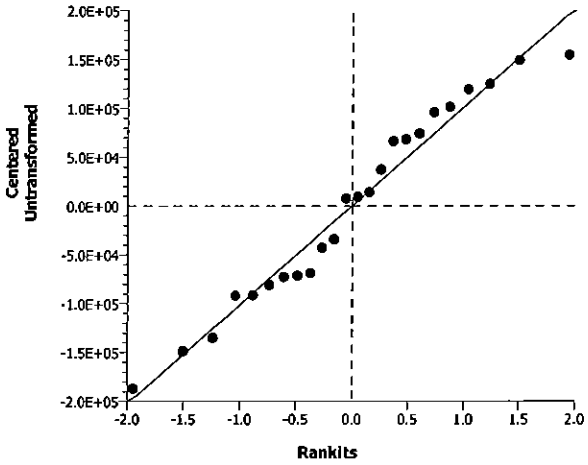
Analysis ID:	08-2005-7513	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:58	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.637E+6	1.717E+6	1.754E+6	1.611E+6
12.5		1.986E+6	1.839E+6	1.760E+6	1.740E+6
25		2.014E+6	1.996E+6	1.746E+6	1.822E+6
50		2.018E+6	1.859E+6	1.706E+6	1.989E+6
100		2.164E+6	2.017E+6	2.247E+6	1.963E+6

Graphics





CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	06-6261-1024	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:58	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	07-8389-4006	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:20	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	19-9755-3521	**Code:**	VCF1110337s	**Client:**	VCWPD
Sample Date:	30 Oct-10 05:00	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7607236	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.876	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.019E+6	1.179E+6	1.219E+4	6.674E+4	6.01%	0.0%
6.25		4	1.680E+6	1.611E+6	1.754E+6	1.223E+4	6.697E+4	3.99%	-51.23%
12.5		4	1.831E+6	1.740E+6	1.986E+6	2.039E+4	1.117E+5	6.1%	-64.87%
25		4	1.895E+6	1.746E+6	2.014E+6	2.401E+4	1.315E+5	6.94%	-70.56%
50		4	1.893E+6	1.706E+6	2.018E+6	2.603E+4	1.426E+5	7.53%	-70.43%
100		4	2.098E+6	1.963E+6	2.247E+6	2.388E+4	1.308E+5	6.24%	-88.86%

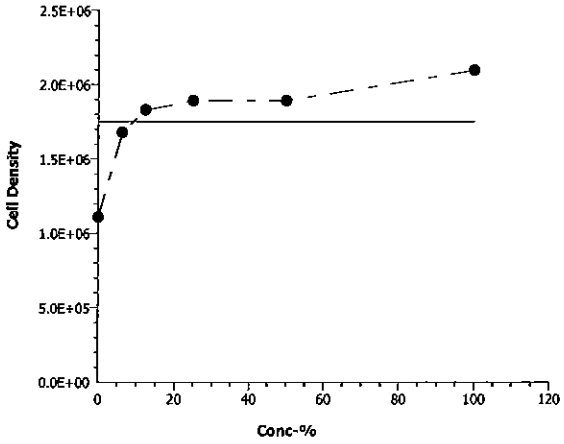
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.637E+6	1.717E+6	1.754E+6	1.611E+6
12.5		1.986E+6	1.839E+6	1.760E+6	1.740E+6
25		2.014E+6	1.996E+6	1.746E+6	1.822E+6
50		2.018E+6	1.859E+6	1.706E+6	1.989E+6
100		2.164E+6	2.017E+6	2.247E+6	1.963E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	06-6261-1024	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:58	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	07-8389-4006	Test Type:	Cell Growth	Analyst:	
Start Date:	02 Nov-10 13:20	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	06 Nov-10 13:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	96h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	19-9755-3521	Code:	VCF1110337s	Client:	VCWPD
Sample Date:	30 Oct-10 05:00	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-THO		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	80			80	80	0	0	0.0%	0
12.5		1	98			98	98	0	0	0.0%	0
25		1	137			137	137	0	0	0.0%	0
50		1	213			213	213	0	0	0.0%	0
100		1	313			313	313	0	0	0.0%	0
Overall		6	151.7			69	313				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	442.2	395.1	489.3	195	531	23.18	139.1	31.46%	0
12.5		5	578	576.5	579.5	573	585	0.7454	4.472	0.77%	0
25		5	740.8	736.3	745.3	721	755	2.234	13.41	1.81%	0
50		5	1092	1088	1096	1078	1106	1.728	10.37	0.95%	0
100		5	1741	1735	1748	1712	1765	3.235	19.41	1.12%	0
Overall		30	838.5			195	1765				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	136			136	136	0	0	0.0%	0
12.5		1	173			173	173	0	0	0.0%	0
25		1	248			248	248	0	0	0.0%	0
50		1	250			250	250	0	0	0.0%	0
100		1	250			250	250	0	0	0.0%	0
Overall		6	195.3			115	250				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		80
12.5		98
25		137
50		213
100		313

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		491	499	495	195	531
12.5		579	576	577	585	573
25		746	734	748	755	721
50		1106	1087	1095	1094	1078
100		1765	1736	1745	1748	1712

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		136
12.5		173
25		248
50		250
100		250

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-HUE
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.338

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	03-7398-3348	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:10	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	17-9900-0606	Code:	VCF1110338cf	Client:	VCWPD
Sample Date:	30 Oct-10 06:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-HUE		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
18-4247-0332	7d Survival Rate	100	>100	N/A	20.57%	1	Dunnett's Multiple Comparison Test
16-8521-4511	Mean Dry Biomass-mg	100	>100	N/A	28.06%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
19-7962-7878	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
15-2910-7837	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
18-4247-0332	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits
19-7962-7878	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits
15-2910-7837	Mean Dry Biomass-mg	Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
16-8521-4511	Mean Dry Biomass-mg	Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
16-8521-4511	Mean Dry Biomass-mg	PMSD	0.2806	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.8667	0.8463	0.887	0.8	0.9333	0.009938	0.05443	6.28%	0.0%
6.25		4	0.9	0.8569	0.9431	0.8	1	0.02108	0.1155	12.83%	-3.85%
12.5		4	0.9167	0.8793	0.954	0.8	1	0.01826	0.1	10.91%	-5.77%
25		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	-11.54%
50		4	0.9333	0.913	0.9537	0.8667	1	0.009938	0.05443	5.83%	-7.69%
100		4	0.9	0.8751	0.9249	0.8667	1	0.01217	0.06667	7.41%	-3.85%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.3286	0.3657	0.2987	0.4147	0.009084	0.04976	14.33%	0.0%
6.25		4	0.4533	0.442	0.4646	0.416	0.49	0.005527	0.03027	6.68%	-30.58%
12.5		4	0.4845	0.4535	0.5155	0.362	0.5453	0.01516	0.08306	17.14%	-39.56%
25		4	0.567	0.5482	0.5858	0.5113	0.6313	0.009208	0.05043	8.9%	-63.32%
50		4	0.534	0.5229	0.5451	0.5093	0.5773	0.005437	0.02978	5.58%	-53.82%
100		4	0.5743	0.5456	0.6031	0.5093	0.674	0.01406	0.07703	13.41%	-65.43%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.8	1	0.8	1
12.5		0.8	1	0.8667	1
25		0.9333	1	0.9333	1
50		0.9333	0.9333	0.8667	1
100		0.8667	0.8667	0.8667	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.456	0.416	0.49	0.4513
12.5		0.362	0.5453	0.522	0.5087
25		0.5113	0.576	0.5493	0.6313
50		0.5247	0.5773	0.5093	0.5247
100		0.518	0.5093	0.596	0.674

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	16-8521-4511	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:47	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	03-7398-3348	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:10	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	17-9900-0606	Code:	VCF1110338cf	Client:	VCWPD
Sample Date:	30 Oct-10 06:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-HUE		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	28.06%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-2.623	2.407	0.09742	0.9999	Non-Significant Effect
		12.5	-3.393	2.407	0.09742	1.0000	Non-Significant Effect
		25	-5.432	2.407	0.09742	1.0000	Non-Significant Effect
		50	-4.616	2.407	0.09742	1.0000	Non-Significant Effect
		100	-5.613	2.407	0.09742	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
PMSD	0.2806	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.419	2.802	0.2391	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.146737	0.02934741	5	8.959	0.0002	Significant Effect
Error	0.058966	0.003275889	18			
Total	0.205703	0.0326233	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	4.713	15.09	0.4519	Equal Variances
Variances	Mod Levene Equality of Variance	0.7448	4.248	0.6002	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9872		0.9852	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.06307	0.2056	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.5449	2.576	0.5858	Normal Distribution
Distribution	D'Agostino Kurtosis	0.5129	2.576	0.6080	Normal Distribution
Distribution	D'Agostino Omnibus	0.5601	9.21	0.7558	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.3282	0.3661	0.2987	0.4147	0.009239	0.04976	14.33%	0.0%
6.25		4	0.4533	0.4418	0.4648	0.416	0.49	0.005622	0.03027	6.68%	-30.58%
12.5		4	0.4845	0.4529	0.5161	0.362	0.5453	0.01542	0.08306	17.14%	-39.56%
25		4	0.567	0.5478	0.5862	0.5113	0.6313	0.009365	0.05043	8.9%	-63.32%
50		4	0.534	0.5227	0.5453	0.5093	0.5773	0.00553	0.02978	5.58%	-53.82%
100		4	0.5743	0.545	0.6036	0.5093	0.674	0.0143	0.07703	13.41%	-65.43%

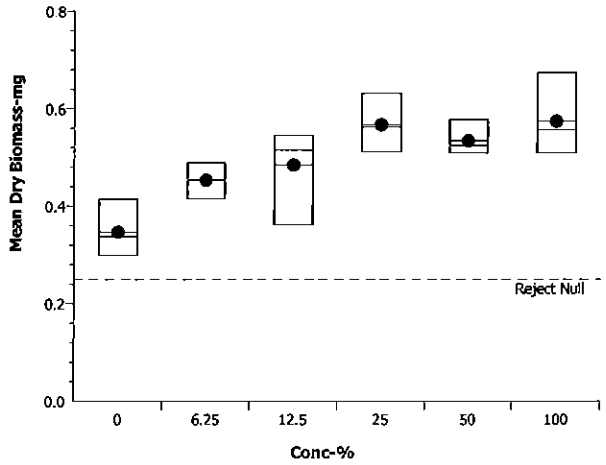
Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

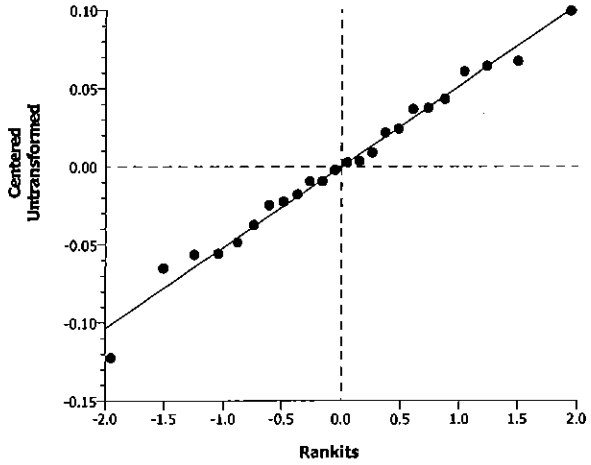
Analysis ID:	16-8521-4511	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:47	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.456	0.416	0.49	0.4513
12.5		0.362	0.5453	0.522	0.5087
25		0.5113	0.576	0.5493	0.6313
50		0.5247	0.5773	0.5093	0.5247
100		0.518	0.5093	0.596	0.674

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-4247-0332	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 14:47	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	03-7398-3348	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:10	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	17-9900-0606	Code:	VCF1110338cf	Client:	VCWPD
Sample Date:	30 Oct-10 06:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-HUE		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	20.57%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-0.7684	2.407	0.2241	0.9683	Non-Significant Effect
		12.5	-1.01	2.407	0.2241	0.9832	Non-Significant Effect
		25	-1.856	2.407	0.2241	0.9986	Non-Significant Effect
		50	-1.2	2.407	0.2241	0.9901	Non-Significant Effect
		100	-0.5949	2.407	0.2241	0.9516	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.627	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.06712224	0.01342445	5	0.7743	0.5807	Non-Significant Effect
Error	0.3120767	0.01733759	18			
Total	0.3791989	0.03076204	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.82	15.09	0.5756	Equal Variances
Variances	Mod Levene Equality of Variance	2.395	4.248	0.0784	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9335		0.1170	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1583	0.2056	0.1217	Normal Distribution
Distribution	D'Agostino Skewness	0.3031	2.576	0.7618	Normal Distribution
Distribution	D'Agostino Kurtosis	1.959	2.576	0.0501	Normal Distribution
Distribution	D'Agostino Omnibus	3.929	9.21	0.1402	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-4247-0332	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:47	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.8667	0.846	0.8874	0.8	0.9333	0.01011	0.05443	6.28%	0.0%
6.25		4	0.9	0.8561	0.9439	0.8	1	0.02144	0.1155	12.83%	-3.85%
12.5		4	0.9167	0.8786	0.9547	0.8	1	0.01857	0.1	10.91%	-5.77%
25		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	-11.54%
50		4	0.9333	0.9126	0.954	0.8667	1	0.01011	0.05443	5.83%	-7.69%
100		4	0.9	0.8746	0.9254	0.8667	1	0.01238	0.06667	7.41%	-3.85%

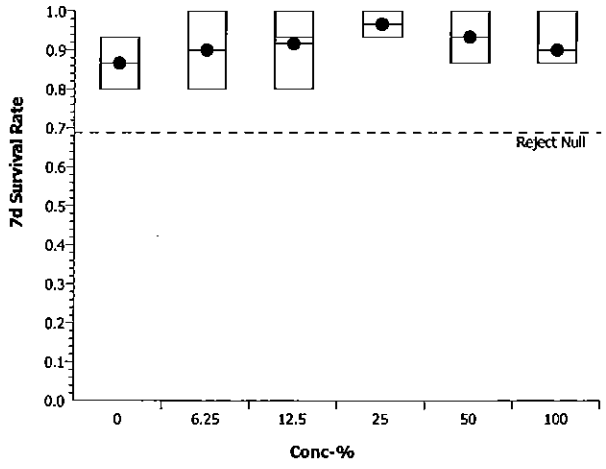
Angular (Corrected) Transformed Summary

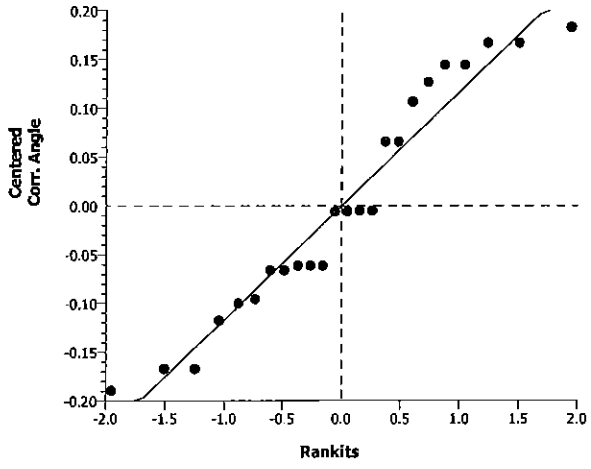
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.203	1.171	1.234	1.107	1.31	0.0154	0.08293	6.9%	0.0%
6.25		4	1.274	1.201	1.348	1.107	1.441	0.03583	0.1929	15.14%	-5.95%
12.5		4	1.297	1.232	1.362	1.107	1.441	0.03175	0.171	13.19%	-7.82%
25		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	-14.37%
50		4	1.314	1.276	1.352	1.197	1.441	0.01855	0.0999	7.6%	-9.29%
100		4	1.258	1.212	1.305	1.197	1.441	0.02269	0.1222	9.71%	-4.61%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.8	1	0.8	1
12.5		0.8	1	0.8667	1
25		0.9333	1	0.9333	1
50		0.9333	0.9333	0.8667	1
100		0.8667	0.8667	0.8667	1

Graphics





CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	15-2910-7837	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:47	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	03-7398-3348	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:10	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:30	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	17-9900-0606	**Code:**	VCF1110338cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-HUE		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	140176	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.419	2.802	0.2391	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.2987	0.4147	0.009084	0.04976	14.33%	0.0%
6.25		4	0.4533	0.416	0.49	0.005527	0.03027	6.68%	-30.58%
12.5		4	0.4845	0.362	0.5453	0.01516	0.08306	17.14%	-39.56%
25		4	0.567	0.5113	0.6313	0.009208	0.05043	8.9%	-63.32%
50		4	0.534	0.5093	0.5773	0.005437	0.02978	5.58%	-53.82%
100		4	0.5743	0.5093	0.674	0.01406	0.07703	13.41%	-65.43%

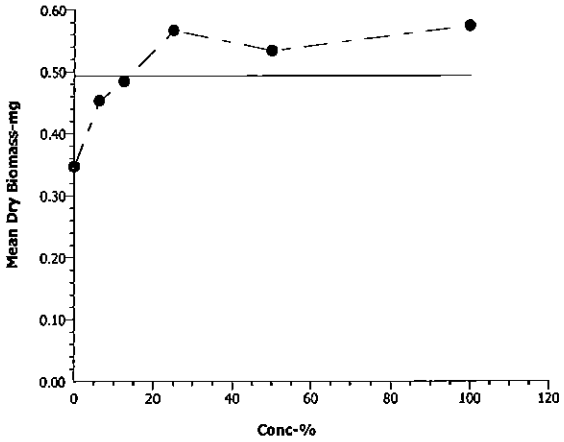
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.456	0.416	0.49	0.4513
12.5		0.362	0.5453	0.522	0.5087
25		0.5113	0.576	0.5493	0.6313
50		0.5247	0.5773	0.5093	0.5247
100		0.518	0.5093	0.596	0.674

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	15-2910-7837	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:47	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	19-7962-7878	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:47	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	03-7398-3348	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:10	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:30	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	17-9900-0606	**Code:**	VCF1110338cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-HUE		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	140176	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.627	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.8667	0.8	0.9333	0.009938	0.05443	6.28%	0.0%	52	60
6.25		4	0.9	0.8	1	0.02108	0.1155	12.83%	-3.85%	54	60
12.5		4	0.9167	0.8	1	0.01826	0.1	10.91%	-5.77%	55	60
25		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	-11.54%	58	60
50		4	0.9333	0.8667	1	0.009938	0.05443	5.83%	-7.69%	56	60
100		4	0.9	0.8667	1	0.01217	0.06667	7.41%	-3.85%	54	60

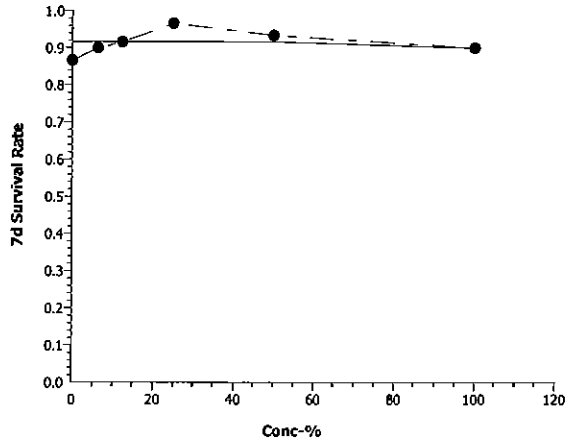
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.8	1	0.8	1
12.5		0.8	1	0.8667	1
25		0.9333	1	0.9333	1
50		0.9333	0.9333	0.8667	1
100		0.8667	0.8667	0.8667	1

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-7962-7878	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 14:47	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	03-7398-3348	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:10	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	17-9900-0606	Code:	VCF1110338cf	Client:	VCWPD
Sample Date:	30 Oct-10 06:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-HUE		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	42	42	42	42	42	0	0	0.0%	0
Overall		16	52.31			42	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	321.1	318.8	323.5	317	337	1.156	6.937	2.16%	0
12.5		8	330.9	329.1	332.7	323	341	0.8973	5.384	1.63%	0
25		8	364.5	361.5	367.5	355	377	1.475	8.848	2.43%	0
50		8	434.3	431.4	437.1	423	450	1.414	8.481	1.95%	0
100		8	548.4	535.4	561.4	487	577	6.414	38.48	7.02%	0
Overall		48	388.3			317	577				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.992			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	105	105	105	105	105	0	0	0.0%	0
Overall		16	99.44			90	105				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		42	42	42	42	42	42	42	42

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		323	337	323	317	317	317	318	317
12.5		323	329	341	336	330	329	329	330
25		371	377	374	367	358	355	355	359
50		435	439	439	432	450	428	428	423
100		487	487	563	569	575	573	577	556

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		105	105	105	105	105	105	105	105

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-HUE
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.338

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	13-3113-4668	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:10	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:30	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	20-1192-6339	**Code:**	VCF1110338cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-HUE		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
20-9916-4516	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
10-4793-5569	Reproduction	100	>100	N/A	13.19%	1	Steel Many-One Rank Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
10-4205-1409	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
09-6436-9156	Reproduction	IC5	11.31	4	N/A	8.843	Linear Interpolation (ICPIN)
		IC10	91.4	9.269	N/A	1.094	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
10-4205-1409	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
20-9916-4516	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
09-6436-9156	Reproduction	Control Resp	23.9	15 - NL	Yes	Result Within Limits
10-4793-5569	Reproduction	Control Resp	23.9	15 - NL	Yes	Result Within Limits
10-4793-5569	Reproduction	PMSD	0.1319	0.13 - 0.47	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	23.9	22.35	25.45	20	35	0.7574	4.149	17.36%	0.0%
6.25		10	25.2	23.81	26.59	22	35	0.682	3.736	14.82%	-5.44%
12.5		10	22.7	22.06	23.34	20	26	0.3109	1.703	7.5%	5.02%
25		10	22	20.94	23.06	16	26	0.5164	2.828	12.86%	7.95%
50		10	24.4	23.17	25.63	19	28	0.6037	3.307	13.55%	-2.09%
100		10	21.9	21.16	22.64	19	25	0.3595	1.969	8.99%	8.37%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	24	22	22	24	25	22	35	22	20	23
6.25		22	35	25	23	24	23	23	25	27	25
12.5		21	26	23	22	24	24	22	22	23	20
25		25	21	20	16	21	23	24	22	26	22
50		21	19	20	24	25	26	27	28	26	28
100		24	22	21	22	19	19	23	21	23	25

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	10-4793-5569	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:12	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	13-3113-4668	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:10	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:30	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	20-1192-6339	**Code:**	VCF1110338cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-HUE		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	13.19%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	125.5	75	5	0.9977	Non-Significant Effect
		12.5	99.5	75	4	0.6816	Non-Significant Effect
		25	93.5	75	5	0.4745	Non-Significant Effect
		50	117	75	3	0.9802	Non-Significant Effect
		100	89.5	75	4	0.3378	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	23.9	15 - NL	Yes	Result Within Limits
PMSD	0.1319	0.13 - 0.47	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.768	3.2	0.0035	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	91.75	18.35	5	1.936	0.1035	Non-Significant Effect
Error	511.9	9.47963	54			
Total	603.65	27.82963	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	9.682	15.09	0.0848	Equal Variances
Variances	Mod Levene Equality of Variance	0.4412	3.377	0.8178	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9104		0.0003	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.1094	0.1331	0.0711	Normal Distribution
Distribution	D'Agostino Skewness	3.624	2.576	0.0003	Non-normal Distribution
Distribution	D'Agostino Kurtosis	3.3	2.576	0.0010	Non-normal Distribution
Distribution	D'Agostino Omnibus	24.03	9.21	<0.0001	Non-normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	23.9	22.32	25.48	20	35	0.7704	4.149	17.36%	0.0%
6.25		10	25.2	23.78	26.62	22	35	0.6937	3.736	14.82%	-5.44%
12.5		10	22.7	22.05	23.35	20	26	0.3162	1.703	7.5%	5.02%
25		10	22	20.92	23.08	16	26	0.5252	2.828	12.86%	7.95%
50		10	24.4	23.14	25.66	19	28	0.614	3.307	13.55%	-2.09%
100		10	21.9	21.15	22.65	19	25	0.3657	1.969	8.99%	8.37%

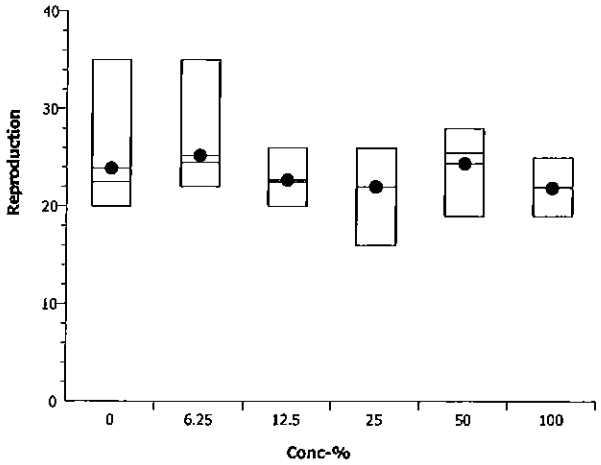
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

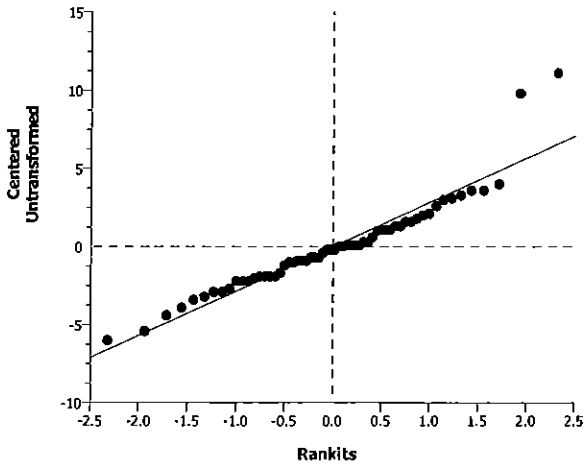
Analysis ID:	10-4793-5569	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 14:12	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	24	22	22	24	25	22	35	22	20	23
6.25		22	35	25	23	24	23	23	25	27	25
12.5		21	26	23	22	24	24	22	22	23	20
25		25	21	20	16	21	23	24	22	26	22
50		21	19	20	24	25	26	27	28	26	28
100		24	22	21	22	19	19	23	21	23	25

Graphics





Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-6436-9156	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 14:12	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	13-3113-4668	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:10	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	20-1192-6339	Code:	VCF1110338cc	Client:	VCWPD
Sample Date:	30 Oct-10 06:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-HUE		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	23.9	15 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	11.31	4	N/A	8.843	N/A	25
IC10	91.4	9.269	N/A	1.094	N/A	10.79
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

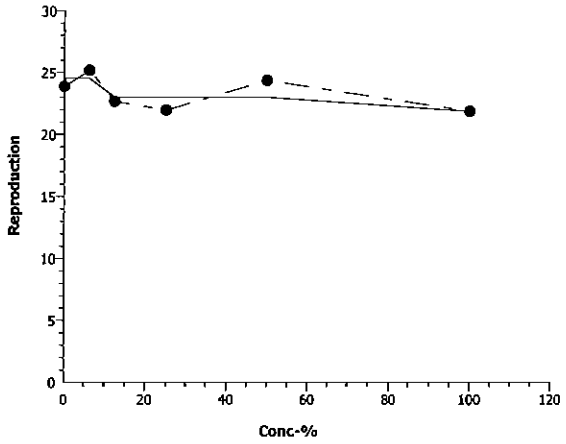
			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	23.9	20	35	0.7574	4.149	17.36%	0.0%
6.25		10	25.2	22	35	0.682	3.736	14.82%	-5.44%
12.5		10	22.7	20	26	0.3109	1.703	7.5%	5.02%
25		10	22	16	26	0.5164	2.828	12.86%	7.95%
50		10	24.4	19	28	0.6037	3.307	13.55%	-2.09%
100		10	21.9	19	25	0.3595	1.969	8.99%	8.37%

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	24	22	22	24	25	22	35	22	20	23
6.25		22	35	25	23	24	23	23	25	27	25
12.5		21	26	23	22	24	24	22	22	23	20
25		25	21	20	16	21	23	24	22	26	22
50		21	19	20	24	25	26	27	28	26	28
100		24	22	21	22	19	19	23	21	23	25

Analysis ID:	09-6436-9156	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:12	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	10-4205-1409	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 14:12	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	13-3113-4668	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:10	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	20-1192-6339	Code:	VCF1110338cc	Client:	VCWPD
Sample Date:	30 Oct-10 06:40	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	78h (5.2 °C)	Station:	MO-HUE		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

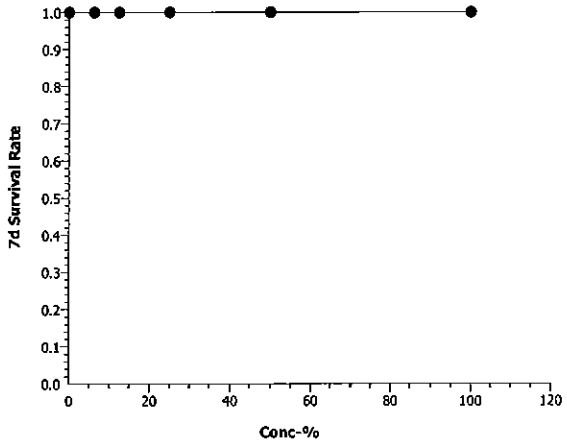
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	10-4205-1409	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:12	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	20-9916-4516	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:12	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	13-3113-4668	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:10	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:30	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	20-1192-6339	**Code:**	VCF1110338cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-HUE		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

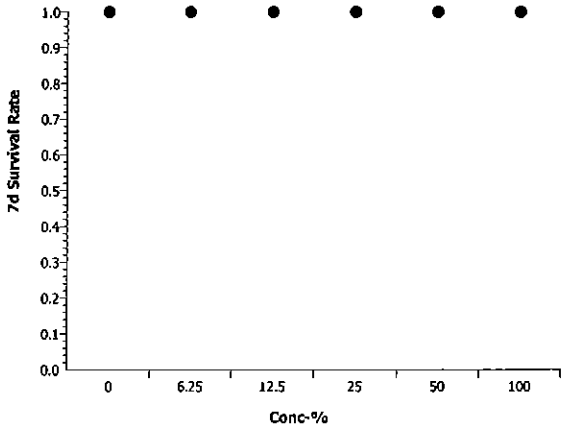
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	20-9916-4516	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:12	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	13-3113-4668	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:10	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:30	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	20-1192-6339	**Code:**	VCF1110338cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	78h (5.2 °C)	**Station:**	MO-HUE		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	42	42	42	42	42	0	0	0.0%	0
Overall		16	52.31			42	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	321.1	318.8	323.5	317	337	1.156	6.937	2.16%	0
12.5		8	330.9	329.1	332.7	323	341	0.8973	5.384	1.63%	0
25		8	364.5	361.5	367.5	355	377	1.475	8.848	2.43%	0
50		8	434.3	431.4	437.1	423	450	1.414	8.481	1.95%	0
100		8	548.4	535.4	561.4	487	577	6.414	38.48	7.02%	0
Overall		48	388.3			317	577				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.9	6.708	7.092	6	7.7	0.0947	0.5682	8.24%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.992			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	105	105	105	105	105	0	0	0.0%	0
Overall		16	99.44			90	105				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		42	42	42	42	42	42	42	42

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		323	337	323	317	317	317	318	317
12.5		323	329	341	336	330	329	329	330
25		371	377	374	367	358	355	355	359
50		435	439	439	432	450	428	428	423
100		487	487	563	569	575	573	577	556

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		7.3	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		105	105	105	105	105	105	105	105

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*
Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-HUE
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.338

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	11-9101-1853	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:21	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	13-7243-5119	**Code:**	VCF1110338s	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	79h (5.2 °C)	**Station:**	MO-HUE		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
11-5652-7918	Cell Density	100	>100	N/A	11.73%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
13-5556-6417	Cell Density	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
11-5652-7918	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
13-5556-6417	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
11-5652-7918	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
13-5556-6417	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
11-5652-7918	Cell Density	PMSD	0.1173	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.086E+6	1.136E+6	1.019E+6	1.179E+6	1.219E+4	6.675E+4	6.01%	0.0%
6.25		4	1.594E+6	1.559E+6	1.629E+6	1.466E+6	1.695E+6	1.735E+4	9.503E+4	5.96%	-43.51%
12.5		4	1.512E+6	1.482E+6	1.543E+6	1.411E+6	1.583E+6	1.486E+4	8.137E+4	5.38%	-36.15%
25		4	1.545E+6	1.525E+6	1.564E+6	1.485E+6	1.601E+6	9.362E+3	5.128E+4	3.32%	-39.05%
50		4	1.595E+6	1.569E+6	1.620E+6	1.539E+6	1.688E+6	1.240E+4	6.793E+4	4.26%	-43.55%
100		4	1.435E+6	1.402E+6	1.468E+6	1.367E+6	1.560E+6	1.616E+4	8.850E+4	6.17%	-29.21%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.695E+6	1.599E+6	1.466E+6	1.616E+6
12.5		1.583E+6	1.411E+6	1.482E+6	1.573E+6
25		1.601E+6	1.522E+6	1.485E+6	1.570E+6
50		1.601E+6	1.550E+6	1.539E+6	1.688E+6
100		1.367E+6	1.436E+6	1.560E+6	1.378E+6

CETIS Analytical Report

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	11-5652-7918	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 15:13	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	11-9101-1853	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:21	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	13-7243-5119	**Code:**	VCF1110338s	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	79h (5.2 °C)	**Station:**	MO-HUE		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	11.73%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-8.925	2.407	130300	1.0000	Non-Significant Effect
		12.5	-7.415	2.407	130300	1.0000	Non-Significant Effect
		25	-8.01	2.407	130300	1.0000	Non-Significant Effect
		50	-8.934	2.407	130300	1.0000	Non-Significant Effect
		100	-5.993	2.407	130300	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1173	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.889	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	6.733677E+11	1.346735E+11	5	22.97	<0.0001	Significant Effect
Error	1.055542E+11	5864125000	18			
Total	7.78922E+11	1.405377E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.258	15.09	0.9392	Equal Variances
Variances	Mod Levene Equality of Variance	0.2186	4.248	0.9499	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9795		0.8858	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.08953	0.2056	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.008504	2.576	0.9932	Normal Distribution
Distribution	D'Agostino Kurtosis	0.916	2.576	0.3596	Normal Distribution
Distribution	D'Agostino Omnibus	0.8392	9.21	0.6573	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.085E+6	1.136E+6	1.019E+6	1.179E+6	1.239E+4	6.674E+4	6.01%	0.0%
6.25		4	1.594E+6	1.558E+6	1.630E+6	1.466E+6	1.695E+6	1.765E+4	9.503E+4	5.96%	-43.51%
12.5		4	1.512E+6	1.481E+6	1.543E+6	1.411E+6	1.583E+6	1.511E+4	8.137E+4	5.38%	-36.15%
25		4	1.545E+6	1.525E+6	1.564E+6	1.485E+6	1.601E+6	9.522E+3	5.128E+4	3.32%	-39.05%
50		4	1.595E+6	1.569E+6	1.620E+6	1.539E+6	1.688E+6	1.262E+4	6.793E+4	4.26%	-43.55%
100		4	1.435E+6	1.402E+6	1.469E+6	1.367E+6	1.560E+6	1.643E+4	8.850E+4	6.17%	-29.21%

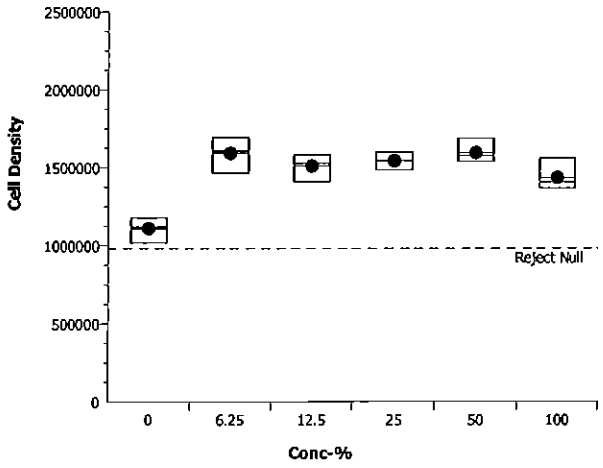
Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

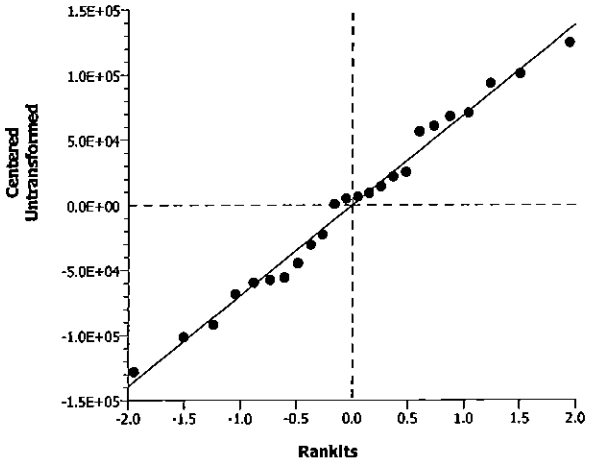
Analysis ID:	11-5652-7918	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 15:13	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.695E+6	1.599E+6	1.466E+6	1.616E+6
12.5		1.583E+6	1.411E+6	1.482E+6	1.573E+6
25		1.601E+6	1.522E+6	1.485E+6	1.570E+6
50		1.601E+6	1.550E+6	1.539E+6	1.688E+6
100		1.367E+6	1.436E+6	1.560E+6	1.378E+6

Graphics





CETIS Analytical Report

Test Code: 05-0288-7109/VCF1110338sel

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	13-5556-6417	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 15:13	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	11-9101-1853	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:21	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	13-7243-5119	**Code:**	VCF1110338s	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	79h (5.2 °C)	**Station:**	MO-HUE		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	8144900	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.889	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.019E+6	1.179E+6	1.219E+4	6.674E+4	6.01%	0.0%
6.25		4	1.594E+6	1.466E+6	1.695E+6	1.735E+4	9.503E+4	5.96%	-43.51%
12.5		4	1.512E+6	1.411E+6	1.583E+6	1.486E+4	8.137E+4	5.38%	-36.15%
25		4	1.545E+6	1.485E+6	1.601E+6	9.362E+3	5.128E+4	3.32%	-39.05%
50		4	1.595E+6	1.539E+6	1.688E+6	1.240E+4	6.793E+4	4.26%	-43.55%
100		4	1.435E+6	1.367E+6	1.560E+6	1.616E+4	8.850E+4	6.17%	-29.21%

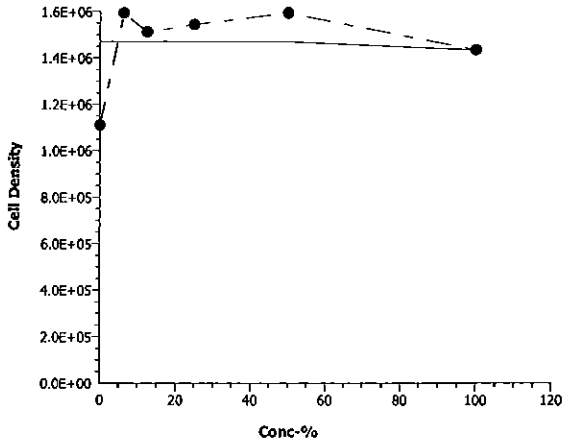
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.695E+6	1.599E+6	1.466E+6	1.616E+6
12.5		1.583E+6	1.411E+6	1.482E+6	1.573E+6
25		1.601E+6	1.522E+6	1.485E+6	1.570E+6
50		1.601E+6	1.550E+6	1.539E+6	1.688E+6
100		1.367E+6	1.436E+6	1.560E+6	1.378E+6

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	13-5556-6417	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 15:13	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	11-9101-1853	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:21	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	13-7243-5119	**Code:**	VCF1110338s	**Client:**	VCWPD
Sample Date:	30 Oct-10 06:40	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	79h (5.2 °C)	**Station:**	MO-HUE		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	68			68	68	0	0	0.0%	0
12.5		1	73			73	73	0	0	0.0%	0
25		1	80			80	80	0	0	0.0%	0
50		1	73			73	73	0	0	0.0%	0
100		1	64			64	64	0	0	0.0%	0
Overall		6	71.17			64	80				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	459.8	458.9	460.7	457	463	0.4314	2.588	0.56%	0
12.5		5	499.2	488.8	509.6	445	520	5.142	30.85	6.18%	0
25		5	591.4	589.8	593	587	598	0.8045	4.827	0.82%	0
50		5	2080	1064	3097	731	7454	500.7	3004	144.4%	0
100		5	1088	1085	1090	1080	1099	1.163	6.979	0.64%	0
Overall		30	859.2			429	7454				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	110			110	110	0	0	0.0%	0
12.5		1	130			130	130	0	0	0.0%	0
25		1	145			145	145	0	0	0.0%	0
50		1	158			158	158	0	0	0.0%	0
100		1	193			193	193	0	0	0.0%	0
Overall		6	141.8			110	193				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	7.8	7.759	7.841	7.7	8	0.02041	0.1225	1.57%	0
12.5		5	7.8	7.759	7.841	7.7	8	0.02041	0.1225	1.57%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.91			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		68
12.5		73
25		80
50		73
100		64

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		463	457	458	459	462
12.5		512	504	515	520	445
25		598	589	595	587	588
50		742	731	742	7454	732
100		1099	1085	1088	1087	1080

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		110
12.5		130
25		145
50		158
100		193

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.7	7.7	7.8	7.8	8
12.5		7.7	7.7	7.8	7.8	8
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

aquatic bioassay & consulting laboratories, inc

January 11, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SPA
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.339

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
GROWTH	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00%

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	12-3748-5966	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:11	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:30	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	20-5544-8302	**Code:**	VCF1110339cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 04:42	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-SPA		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
21-2263-0443	7d Survival Rate	100	>100	N/A	12.07%	1	Steel Many-One Rank Test
00-4913-3996	Mean Dry Biomass-mg	100	>100	N/A	20.17%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
06-3425-2417	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
01-4503-3331	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
06-3425-2417	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits
21-2263-0443	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits
00-4913-3996	Mean Dry Biomass-mg	Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
01-4503-3331	Mean Dry Biomass-mg	Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
00-4913-3996	Mean Dry Biomass-mg	PMSD	0.2017	0.12 - 0.3	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.8667	0.8463	0.887	0.8	0.9333	0.009938	0.05443	6.28%	0.0%
6.25		4	0.8833	0.8595	0.9072	0.8	0.9333	0.01165	0.06383	7.23%	-1.92%
12.5		4	1	1	1	1	1	0	0	0.0%	-15.38%
25		4	1	1	1	1	1	0	0	0.0%	-15.38%
50		4	0.9333	0.8981	0.9685	0.8	1	0.01721	0.09428	10.1%	-7.69%
100		4	1	1	1	1	1	0	0	0.0%	-15.38%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.3286	0.3657	0.2987	0.4147	0.009084	0.04976	14.33%	0.0%
6.25		4	0.3808	0.368	0.3936	0.3387	0.4193	0.006257	0.03427	9.0%	-9.7%
12.5		4	0.4202	0.4072	0.4332	0.3947	0.47	0.006351	0.03478	8.28%	-21.03%
25		4	0.4345	0.4251	0.4439	0.4127	0.4707	0.004597	0.02518	5.8%	-25.16%
50		4	0.4492	0.4303	0.468	0.3893	0.5127	0.009206	0.05042	11.23%	-29.38%
100		4	0.4602	0.443	0.4774	0.4193	0.5227	0.008409	0.04606	10.01%	-32.55%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.8667	0.9333	0.9333	0.8
12.5		1	1	1	1
25		1	1	1	1
50		0.8	0.9333	1	1
100		1	1	1	1

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.4193	0.3713	0.394	0.3387
12.5		0.418	0.3947	0.398	0.47
25		0.43	0.4127	0.4247	0.4707
50		0.3893	0.4453	0.5127	0.4493
100		0.466	0.5227	0.4193	0.4327

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-4913-3996	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:05	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	12-3748-5966	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:11	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:30	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	20-5544-8302	**Code:**	VCF1110339cf	**Client:**	VCWPD
Sample Date:	30 Oct-10 04:42	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-SPA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	20.17%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-1.157	2.407	0.07003	0.9888	Non-Significant Effect
		12.5	-2.509	2.407	0.07003	0.9998	Non-Significant Effect
		25	-3.002	2.407	0.07003	1.0000	Non-Significant Effect
		50	-3.506	2.407	0.07003	1.0000	Non-Significant Effect
		100	-3.884	2.407	0.07003	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits
PMSD	0.2017	0.12 - 0.3	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.854	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.03752956	0.007505912	5	4.434	0.0083	Significant Effect
Error	0.03047311	0.001692951	18			
Total	0.06800267	0.009198863	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.784	15.09	0.8782	Equal Variances
Variances	Mod Levene Equality of Variance	0.3234	4.248	0.8923	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9412		0.1733	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1447	0.2056	0.2142	Normal Distribution
Distribution	D'Agostino Skewness	1.071	2.576	0.2841	Normal Distribution
Distribution	D'Agostino Kurtosis	0.6073	2.576	0.5437	Normal Distribution
Distribution	D'Agostino Omnibus	1.516	9.21	0.4685	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.3282	0.3661	0.2987	0.4147	0.009239	0.04976	14.33%	0.0%
6.25		4	0.3808	0.3678	0.3939	0.3387	0.4193	0.006364	0.03427	9.0%	-9.7%
12.5		4	0.4202	0.4069	0.4334	0.3947	0.47	0.006459	0.03478	8.28%	-21.03%
25		4	0.4345	0.4249	0.4441	0.4127	0.4707	0.004675	0.02518	5.8%	-25.16%
50		4	0.4492	0.43	0.4683	0.3893	0.5127	0.009363	0.05042	11.23%	-29.38%
100		4	0.4602	0.4426	0.4777	0.4193	0.5227	0.008553	0.04606	10.01%	-32.55%

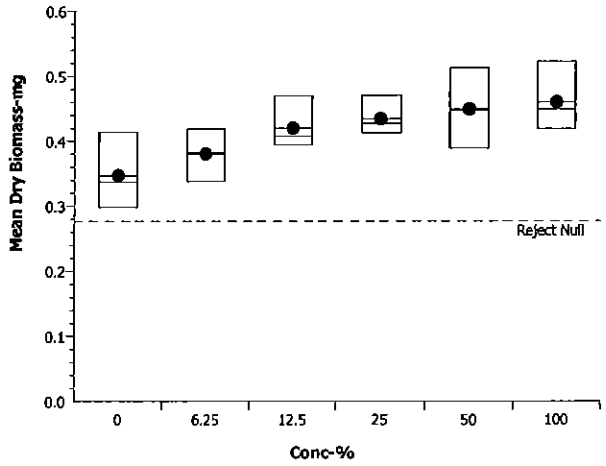
Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

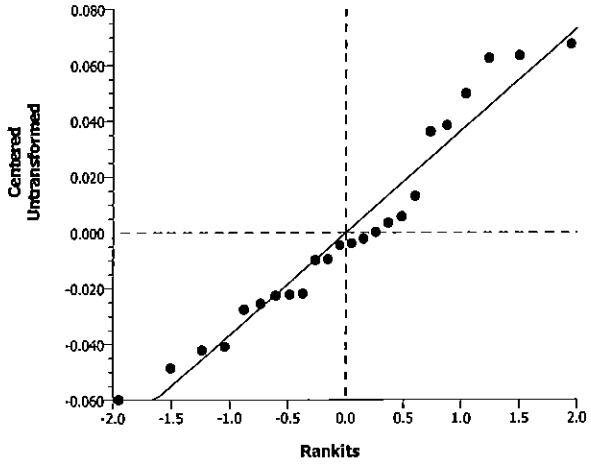
Analysis ID:	00-4913-3996	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:05	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.4193	0.3713	0.394	0.3387
12.5		0.418	0.3947	0.398	0.47
25		0.43	0.4127	0.4247	0.4707
50		0.3893	0.4453	0.5127	0.4493
100		0.466	0.5227	0.4193	0.4327

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	21-2263-0443	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 15:04	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes
Batch ID:	12-3748-5966	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:11	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	20-5544-8302	Code:	VCF1110339cf	Client:	VCWPD
Sample Date:	30 Oct-10 04:42	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-SPA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	12.07%

Steel Many-One Rank Test

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	19.5	10	3	0.9315	Non-Significant Effect
		12.5	26	10	0	0.9999	Non-Significant Effect
		25	26	10	0	0.9999	Non-Significant Effect
		50	22	10	2	0.9908	Non-Significant Effect
		100	26	10	0	0.9999	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.962	2.802	0.0227	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.2459974	0.04919948	5	7.127	0.0008	Significant Effect
Error	0.1242568	0.006903155	18			
Total	0.3702542	0.05610264	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	3.731	4.248	0.0171	Equal Variances
Distribution	Shapiro-Wilk Normality	0.8193		0.0006	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.2917	0.2056	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	1.939	2.576	0.0525	Normal Distribution
Distribution	D'Agostino Kurtosis	2.12	2.576	0.0340	Normal Distribution
Distribution	D'Agostino Omnibus	8.256	9.21	0.0161	Normal Distribution

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	21-2263-0443	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:04	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.8667	0.846	0.8874	0.8	0.9333	0.01011	0.05443	6.28%	0.0%
6.25		4	0.8833	0.8591	0.9076	0.8	0.9333	0.01185	0.06383	7.23%	-1.92%
12.5		4	1	1	1	1	1	0	0	0.0%	-15.38%
25		4	1	1	1	1	1	0	0	0.0%	-15.38%
50		4	0.9333	0.8975	0.9692	0.8	1	0.01751	0.09428	10.1%	-7.69%
100		4	1	1	1	1	1	0	0	0.0%	-15.38%

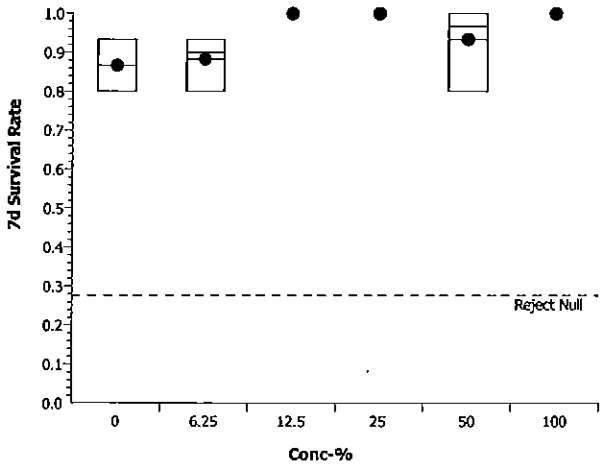
Angular (Corrected) Transformed Summary

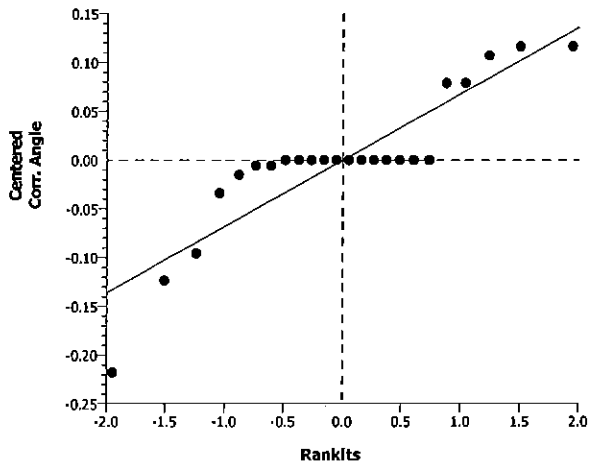
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.203	1.171	1.234	1.107	1.31	0.0154	0.08293	6.9%	0.0%
6.25		4	1.231	1.194	1.268	1.107	1.31	0.01821	0.09809	7.97%	-2.34%
12.5		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-19.84%
25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-19.84%
50		4	1.325	1.265	1.385	1.107	1.441	0.02931	0.1579	11.92%	-10.16%
100		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-19.84%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.8667	0.9333	0.9333	0.8
12.5		1	1	1	1
25		1	1	1	1
50		0.8	0.9333	1	1
100		1	1	1	1

Graphics





Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	01-4503-3331	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 15:05	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	12-3748-5966	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:11	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	20-5544-8302	Code:	VCF1110339cf	Client:	VCWPD
Sample Date:	30 Oct-10 04:42	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7607236	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3472	0.25 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.854	2.802	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3472	0.2987	0.4147	0.009084	0.04976	14.33%	0.0%
6.25		4	0.3808	0.3387	0.4193	0.006257	0.03427	9.0%	-9.7%
12.5		4	0.4202	0.3947	0.47	0.006351	0.03478	8.28%	-21.03%
25		4	0.4345	0.4127	0.4707	0.004597	0.02518	5.8%	-25.16%
50		4	0.4492	0.3893	0.5127	0.009206	0.05042	11.23%	-29.38%
100		4	0.4602	0.4193	0.5227	0.008409	0.04606	10.01%	-32.55%

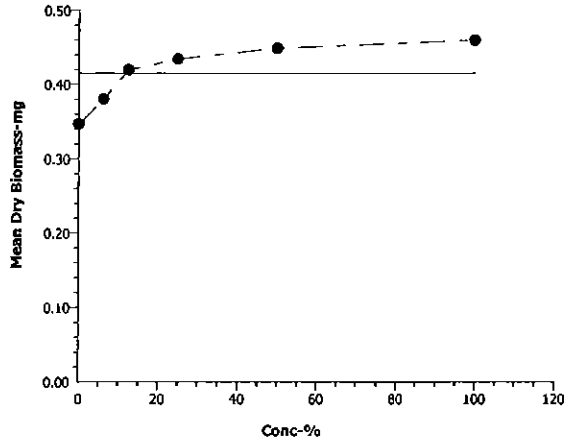
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2987	0.4147	0.3247	0.3507
6.25		0.4193	0.3713	0.394	0.3387
12.5		0.418	0.3947	0.398	0.47
25		0.43	0.4127	0.4247	0.4707
50		0.3893	0.4453	0.5127	0.4493
100		0.466	0.5227	0.4193	0.4327

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	01-4503-3331	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:05	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	06-3425-2417	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	01 Dec-10 15:05	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	12-3748-5966	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:11	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	20-5544-8302	Code:	VCF1110339cf	Client:	VCWPD
Sample Date:	30 Oct-10 04:42	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7607236	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.8667	0.8	0.9333	0.009938	0.05443	6.28%	0.0%	52	60
6.25		4	0.8833	0.8	0.9333	0.01165	0.06383	7.23%	-1.92%	53	60
12.5		4	1	1	1	0	0	0.0%	-15.38%	60	60
25		4	1	1	1	0	0	0.0%	-15.38%	60	60
50		4	0.9333	0.8	1	0.01721	0.09428	10.1%	-7.69%	56	60
100		4	1	1	1	0	0	0.0%	-15.38%	60	60

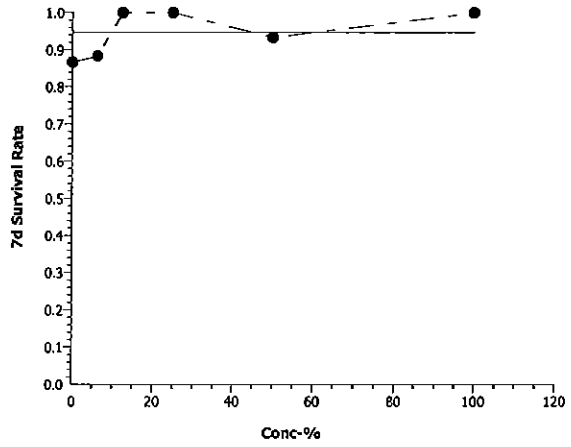
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.8667	0.9333	0.9333	0.8
12.5		1	1	1	1
25		1	1	1	1
50		0.8	0.9333	1	1
100		1	1	1	1

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	06-3425-2417	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Dec-10 15:05	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	12-3748-5966	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:11	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	20-5544-8302	Code:	VCF1110339cf	Client:	VCWPD
Sample Date:	30 Oct-10 04:42	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-SPA		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	40	40	40	40	40	0	0	0.0%	0
Overall		16	51.31			40	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	308.5	306.6	310.4	300	315	0.9428	5.657	1.83%	0
12.5		8	287.8	286.8	288.7	282	291	0.4777	2.866	1.0%	0
25		8	267.6	265.5	269.7	260	277	1.027	6.163	2.3%	0
50		8	225.3	224.7	225.8	224	229	0.2635	1.581	0.7%	0
100		8	132.6	131.8	133.4	129	135	0.3877	2.326	1.75%	0
Overall		48	258.7			129	342				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.838	6.653	7.022	6	7.7	0.09082	0.5449	7.97%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.981			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	62	62	62	62	62	0	0	0.0%	0
Overall		16	77.94			62	98				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		40	40	40	40	40	40	40	40

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		309	311	307	301	310	315	315	300
12.5		290	291	290	286	287	288	288	282
25		268	266	260	266	269	275	277	260
50		224	229	225	224	225	225	225	225
100		133	132	130	132	135	135	135	129

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		6.8	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		62	62	62	62	62	62	62	62

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

January 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SPA
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.339

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

for Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	14-3302-4180	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:11	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:30	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	14-6125-5644	**Code:**	VCF1110339cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 04:42	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-SPA		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
11-9185-9650	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
15-2662-3739	Reproduction	100	>100	N/A	13.02%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
09-1200-4865	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
02-3441-9706	Reproduction	IC5	10.04	4.167	N/A	9.958	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
09-1200-4865	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
11-9185-9650	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
02-3441-9706	Reproduction	Control Resp	22.3	15 - NL	Yes	Result Within Limits
15-2662-3739	Reproduction	Control Resp	22.3	15 - NL	Yes	Result Within Limits
15-2662-3739	Reproduction	PMSD	0.1302	0.13 - 0.47	Yes	Result Within Limits

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	22.3	21.26	23.34	17	26	0.5095	2.791	12.52%	0.0%
6.25		10	22.6	21.79	23.41	19	26	0.3963	2.171	9.6%	-1.35%
12.5		10	20.6	19.87	21.33	18	25	0.3569	1.955	9.49%	7.62%
25		10	17.6	16.62	18.58	15	21	0.4807	2.633	14.96%	21.08%
50		10	22	20.79	23.21	17	26	0.59	3.232	14.69%	1.35%
100		10	21.9	20.48	23.32	16	28	0.6963	3.814	17.41%	1.79%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	24	23	23	23	26	25	23	19	20	17
6.25		22	25	24	22	24	26	22	22	20	19
12.5		18	20	19	21	21	19	25	20	22	21
25		21	15	15	15	15	20	16	19	21	19
50		26	23	18	20	24	25	19	17	23	25
100		23	23	19	24	22	24	16	28	16	24

CETIS Analytical Report

Test Code: 02-1552-5384/VCF1110339ccer

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	15-2662-3739	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 14:20	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	14-3302-4180	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:11	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	14-6125-5644	Code:	VCF1110339cc	Client:	VCWPD
Sample Date:	30 Oct-10 04:42	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-SPA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	13.02%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-0.2366	2.289	2.903	0.8942	Non-Significant Effect
		12.5	1.341	2.289	2.903	0.2738	Non-Significant Effect
		25*	3.706	2.289	2.903	0.0011	Significant Effect
		50	0.2366	2.289	2.903	0.7537	Non-Significant Effect
		100	0.3154	2.289	2.903	0.7233	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	22.3	15 - NL	Yes	Result Within Limits
PMSD	0.1302	0.13 - 0.47	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.249	3.2	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	176.1333	35.22667	5	4.381	0.0020	Significant Effect
Error	434.2	8.040741	54			
Total	610.3334	43.26741	59			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.211	15.09	0.3906	Equal Variances
Variances	Mod Levene Equality of Variance	0.8612	3.377	0.5132	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9767		0.3065	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1086	0.1331	0.0755	Normal Distribution
Distribution	D'Agostino Skewness	0.926	2.576	0.3545	Normal Distribution
Distribution	D'Agostino Kurtosis	0.7039	2.576	0.4815	Normal Distribution
Distribution	D'Agostino Omnibus	1.353	9.21	0.5084	Normal Distribution

Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	22.3	21.24	23.36	17	26	0.5182	2.791	12.52%	0.0%
6.25		10	22.6	21.77	23.43	19	26	0.4031	2.171	9.6%	-1.35%
12.5		10	20.6	19.86	21.34	18	25	0.363	1.955	9.49%	7.62%
25		10	17.6	16.6	18.6	15	21	0.489	2.633	14.96%	21.08%
50		10	22	20.77	23.23	17	26	0.6001	3.232	14.69%	1.35%
100		10	21.9	20.45	23.35	16	28	0.7082	3.814	17.41%	1.79%

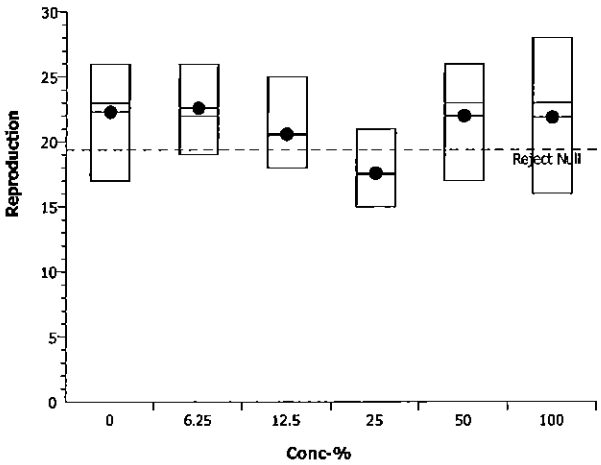
Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

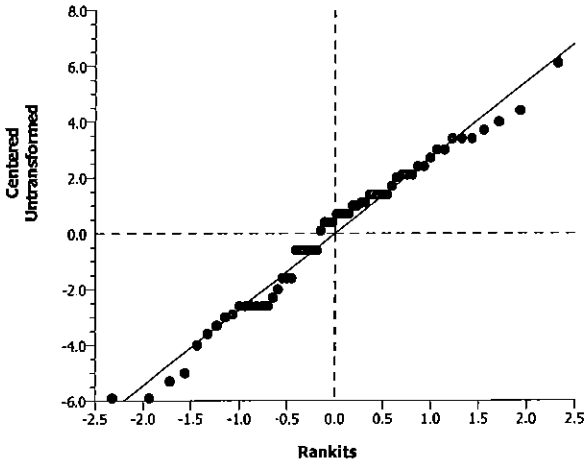
Analysis ID:	15-2662-3739	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:20	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	24	23	23	23	26	25	23	19	20	17
6.25		22	25	24	22	24	26	22	22	20	19
12.5		18	20	19	21	21	19	25	20	22	21
25		21	15	15	15	15	20	16	19	21	19
50		26	23	18	20	24	25	19	17	23	25
100		23	23	19	24	22	24	16	28	16	24

Graphics





CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	02-3441-9706	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 14:20	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	14-3302-4180	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:11	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	14-6125-5644	Code:	VCF1110339cc	Client:	VCWPD
Sample Date:	30 Oct-10 04:42	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	22.3	15 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.249	3.2	1.0000	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	10.04	4.167	N/A	9.958	N/A	24
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	22.3	17	26	0.5095	2.791	12.52%	0.0%
6.25		10	22.6	19	26	0.3963	2.171	9.6%	-1.35%
12.5		10	20.6	18	25	0.3569	1.955	9.49%	7.62%
25		10	17.6	15	21	0.4807	2.633	14.96%	21.08%
50		10	22	17	26	0.59	3.232	14.69%	1.35%
100		10	21.9	16	28	0.6963	3.814	17.41%	1.79%

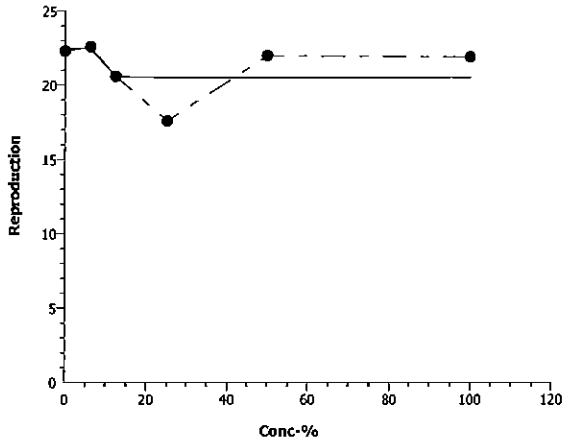
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	24	23	23	23	26	25	23	19	20	17
6.25		22	25	24	22	24	26	22	22	20	19
12.5		18	20	19	21	21	19	25	20	22	21
25		21	15	15	15	15	20	16	19	21	19
50		26	23	18	20	24	25	19	17	23	25
100		23	23	19	24	22	24	16	28	16	24

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	02-3441-9706	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:20	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-1200-4865	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:20	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	14-3302-4180	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-10 13:11	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	09 Nov-10 13:30	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	<24h
Sample ID:	14-6125-5644	**Code:**	VCF1110339cc	**Client:**	VCWPD
Sample Date:	30 Oct-10 04:42	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	80h (5.2 °C)	**Station:**	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

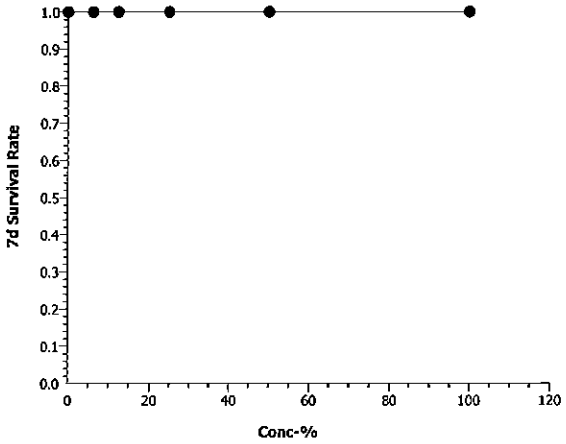
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-1200-4865	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:20	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	11-9185-9650	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 14:20	Analysis:	STP 2x2 Contingency Tables	Official Results:	Yes
Batch ID:	14-3302-4180	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:11	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h
Sample ID:	14-6125-5644	Code:	VCF1110339cc	Client:	VCWPD
Sample Date:	30 Oct-10 04:42	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-SPA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Data Summary

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

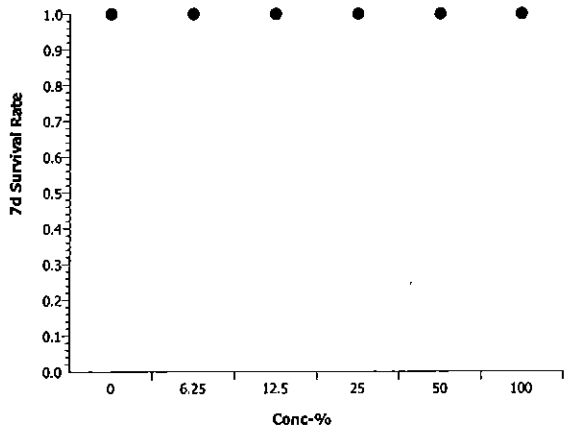
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	11-9185-9650	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 14:20	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Measurement Report

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	14-3302-4180	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	02 Nov-10 13:11	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	09 Nov-10 13:30	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	<24h

Sample ID:	14-6125-5644	Code:	VCF1110339cc	Client:	VCWPD
Sample Date:	30 Oct-10 04:42	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	80h (5.2 °C)	Station:	MO-SPA		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62.63	62.05	63.2	61	65	0.2808	1.685	2.69%	0
100		8	40	40	40	40	40	0	0	0.0%	0
Overall		16	51.31			40	65				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	330.5	327.3	333.7	317	342	1.569	9.411	2.85%	0
6.25		8	308.5	306.6	310.4	300	315	0.9428	5.657	1.83%	0
12.5		8	287.8	286.8	288.7	282	291	0.4777	2.866	1.0%	0
25		8	267.6	265.5	269.7	260	277	1.027	6.163	2.3%	0
50		8	225.3	224.7	225.8	224	229	0.2635	1.581	0.7%	0
100		8	132.6	131.8	133.4	129	135	0.3877	2.326	1.75%	0
Overall		48	258.7			129	342				0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.438	7.293	7.582	6.9	8.1	0.07123	0.4274	5.75%	0
6.25		8	7.038	6.899	7.176	6.4	7.6	0.06839	0.4104	5.83%	0
12.5		8	6.975	6.838	7.112	6.4	7.5	0.0677	0.4062	5.82%	0
25		8	6.788	6.633	6.942	6.2	7.5	0.07634	0.4581	6.75%	0
50		8	6.838	6.653	7.022	6	7.7	0.09082	0.5449	7.97%	0
100		8	6.813	6.684	6.941	6.4	7.5	0.06327	0.3796	5.57%	0
Overall		48	6.981			6	8.1				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.88	92.78	94.97	90	98	0.5378	3.227	3.44%	0
100		8	62	62	62	62	62	0	0	0.0%	0
Overall		16	77.94			62	98				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.888	7.838	7.937	7.6	8.1	0.0243	0.1458	1.85%	0
6.25		8	7.788	7.732	7.843	7.5	8	0.02737	0.1642	2.11%	0
12.5		8	7.775	7.732	7.818	7.6	8	0.02136	0.1282	1.65%	0
25		8	7.675	7.625	7.725	7.5	7.9	0.0248	0.1488	1.94%	0
50		8	7.663	7.622	7.703	7.5	7.8	0.0198	0.1188	1.55%	0
100		8	7.663	7.603	7.722	7.4	7.9	0.02946	0.1768	2.31%	0
Overall		48	7.742			7.4	8.1				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.24	24.16	24.31	24	24.6	0.03773	0.2264	0.93%	0
6.25		8	24.2	24.13	24.27	24	24.7	0.03563	0.2138	0.88%	0
12.5		8	24.48	24.42	24.53	24.2	24.6	0.0248	0.1488	0.61%	0
25		8	24.25	24.21	24.29	24.1	24.5	0.01991	0.1195	0.49%	0
50		8	24.26	24.19	24.34	24	24.6	0.03666	0.22	0.91%	0
100		8	24.16	24.13	24.2	24.1	24.4	0.01766	0.106	0.44%	0
Overall		48	24.26			24	24.7				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	65	63	63	65	61	61	61	62
100		40	40	40	40	40	40	40	40

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	325	334	317	338	340	342	328	320
6.25		309	311	307	301	310	315	315	300
12.5		290	291	290	286	287	288	288	282
25		268	266	260	266	269	275	277	260
50		224	229	225	224	225	225	225	225
100		133	132	130	132	135	135	135	129

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7	6.9	7	7.5	7.6	7.7	8.1
6.25		7.6	6.8	6.8	6.4	7.1	7.3	7.5	6.8
12.5		7.5	6.8	6.7	6.4	7.3	7.5	6.8	6.8
25		7.3	6.8	6.6	6.2	7	6.3	7.5	6.6
50		6.8	7.7	6.7	6.5	6	7.1	6.5	7.4
100		7.2	6.9	6.7	6.8	7.5	6.5	6.4	6.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	98	98	97	92	92	92	92
100		62	62	62	62	62	62	62	62

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	8	8.1	7.9	7.9	7.9	7.9	7.6
6.25		7.8	8	7.9	7.5	7.8	7.9	7.8	7.6
12.5		7.8	7.7	7.6	7.7	7.8	7.9	8	7.7
25		7.6	7.9	7.8	7.5	7.6	7.7	7.8	7.5
50		7.8	7.7	7.7	7.5	7.6	7.7	7.8	7.5
100		7.8	7.9	7.7	7.5	7.5	7.7	7.8	7.4

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24.1	24.6	24.4	24.5	24	24.1	24.1	24.1
6.25		24.1	24.1	24.2	24.7	24	24.1	24.2	24.2
12.5		24.2	24.3	24.5	24.6	24.5	24.5	24.6	24.6
25		24.2	24.1	24.2	24.3	24.5	24.3	24.2	24.2
50		24.1	24.1	24.1	24.3	24.4	24.5	24	24.6
100		24.1	24.2	24.1	24.4	24.1	24.1	24.2	24.1

aquatic bioassay & consulting laboratories, inc

February 8, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*
Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SPA
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.339

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

CETIS Summary Report

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	12-3138-4567	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:22	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	05-3175-4736	**Code:**	VCF1110339s	**Client:**	VCWPD
Sample Date:	30 Oct-10 04:42	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	81h (5.2 °C)	**Station:**	MO-SPA		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
15-3552-9937	Cell Density	100	>100	N/A	11.38%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
10-0161-3853	Cell Density	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
10-0161-3853	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
15-3552-9937	Cell Density	Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
10-0161-3853	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
15-3552-9937	Cell Density	Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
15-3552-9937	Cell Density	PMSD	0.1138	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.086E+6	1.136E+6	1.019E+6	1.179E+6	1.219E+4	6.675E+4	6.01%	0.0%
6.25		4	1.639E+6	1.612E+6	1.666E+6	1.553E+6	1.728E+6	1.305E+4	7.147E+4	4.36%	-47.56%
12.5		4	1.568E+6	1.537E+6	1.598E+6	1.501E+6	1.674E+6	1.486E+4	8.142E+4	5.19%	-41.14%
25		4	1.641E+6	1.602E+6	1.680E+6	1.558E+6	1.793E+6	1.896E+4	1.039E+5	6.33%	-47.76%
50		4	1.649E+6	1.631E+6	1.666E+6	1.596E+6	1.709E+6	8.565E+3	4.691E+4	2.85%	-48.44%
100		4	1.518E+6	1.494E+6	1.541E+6	1.438E+6	1.591E+6	1.143E+4	6.262E+4	4.13%	-36.62%

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.638E+6	1.728E+6	1.637E+6	1.553E+6
12.5		1.674E+6	1.507E+6	1.589E+6	1.501E+6
25		1.602E+6	1.612E+6	1.793E+6	1.558E+6
50		1.636E+6	1.596E+6	1.709E+6	1.654E+6
100		1.438E+6	1.524E+6	1.591E+6	1.517E+6

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	15-3552-9937	Endpoint:	Cell Density	CETIS Version:	CETISv1.7.0
Analyzed:	02 Dec-10 15:25	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	12-3138-4567	Test Type:	Cell Growth	Analyst:	
Start Date:	02 Nov-10 13:22	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	06 Nov-10 13:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable
Duration:	96h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	05-3175-4736	Code:	VCF1110339s	Client:	VCWPD
Sample Date:	30 Oct-10 04:42	Material:	Sample Water	Project:	Event 2
Receive Date:	30 Oct-10 08:55	Source:	Bioassay Report		
Sample Age:	81h (5.2 °C)	Station:	MO-SPA		

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	11.38%

Dunnett's Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-10.06	2.407	126400	1.0000	Non-Significant Effect
		12.5	-8.702	2.407	126400	1.0000	Non-Significant Effect
		25	-10.1	2.407	126400	1.0000	Non-Significant Effect
		50	-10.24	2.407	126400	1.0000	Non-Significant Effect
		100	-7.745	2.407	126400	1.0000	Non-Significant Effect

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1138	0.091 - 0.29	Yes	Result Within Limits

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.31	2.802	0.3509	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	8.608274E+11	1.721655E+11	5	31.21	<0.0001	Significant Effect
Error	99296000000	5516445000	18			
Total	9.601234E+11	1.776819E+11	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.85	15.09	0.8694	Equal Variances
Variances	Mod Levene Equality of Variance	0.2253	4.248	0.9467	Equal Variances
Distribution	Shapiro-Wilk Normality	0.951		0.2849	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1232	0.2056	0.4523	Normal Distribution
Distribution	D'Agostino Skewness	1.138	2.576	0.2551	Normal Distribution
Distribution	D'Agostino Kurtosis	0.1209	2.576	0.9038	Normal Distribution
Distribution	D'Agostino Omnibus	1.31	9.21	0.5194	Normal Distribution

Cell Density Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.085E+6	1.136E+6	1.019E+6	1.179E+6	1.239E+4	6.674E+4	6.01%	0.0%
6.25		4	1.639E+6	1.612E+6	1.666E+6	1.553E+6	1.728E+6	1.327E+4	7.147E+4	4.36%	-47.56%
12.5		4	1.568E+6	1.537E+6	1.599E+6	1.501E+6	1.674E+6	1.512E+4	8.142E+4	5.19%	-41.14%
25		4	1.641E+6	1.602E+6	1.681E+6	1.558E+6	1.793E+6	1.928E+4	1.039E+5	6.33%	-47.76%
50		4	1.649E+6	1.631E+6	1.667E+6	1.596E+6	1.709E+6	8.712E+3	4.691E+4	2.85%	-48.44%
100		4	1.518E+6	1.494E+6	1.541E+6	1.438E+6	1.591E+6	1.163E+4	6.262E+4	4.13%	-36.62%

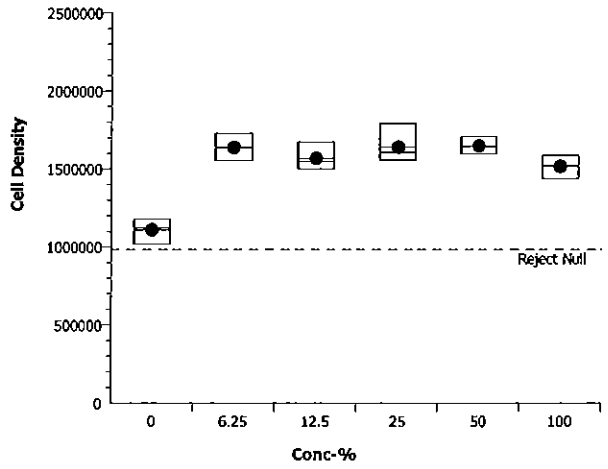
Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

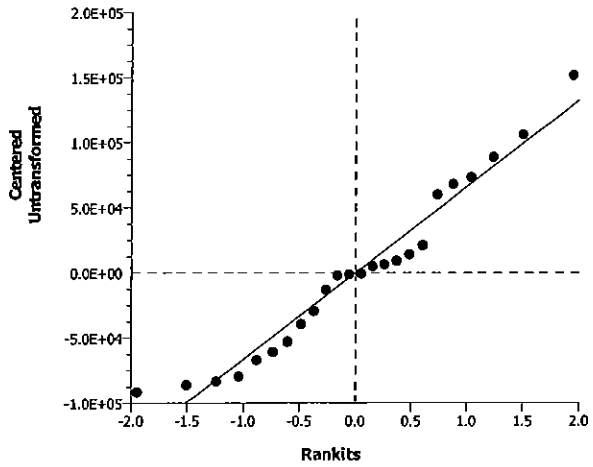
Analysis ID:	15-3552-9937	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 15:25	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.638E+6	1.728E+6	1.637E+6	1.553E+6
12.5		1.674E+6	1.507E+6	1.589E+6	1.501E+6
25		1.602E+6	1.612E+6	1.793E+6	1.558E+6
50		1.636E+6	1.596E+6	1.709E+6	1.654E+6
100		1.438E+6	1.524E+6	1.591E+6	1.517E+6

Graphics





CETIS Analytical Report

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	10-0161-3853	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 15:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	12-3138-4567	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:22	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	05-3175-4736	**Code:**	VCF1110339s	**Client:**	VCWPD
Sample Date:	30 Oct-10 04:42	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	81h (5.2 °C)	**Station:**	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7090379	280	Yes	Two-Point Interpolation

Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.06009	NL - 0.2	Yes	Result Within Limits
Control Resp	1.11E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.31	2.802	0.3509	No Outliers Detected

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.111E+6	1.019E+6	1.179E+6	1.219E+4	6.674E+4	6.01%	0.0%
6.25		4	1.639E+6	1.553E+6	1.728E+6	1.305E+4	7.147E+4	4.36%	-47.56%
12.5		4	1.568E+6	1.501E+6	1.674E+6	1.486E+4	8.142E+4	5.19%	-41.14%
25		4	1.641E+6	1.558E+6	1.793E+6	1.896E+4	1.039E+5	6.33%	-47.76%
50		4	1.649E+6	1.596E+6	1.709E+6	8.565E+3	4.691E+4	2.85%	-48.44%
100		4	1.518E+6	1.438E+6	1.591E+6	1.143E+4	6.262E+4	4.13%	-36.62%

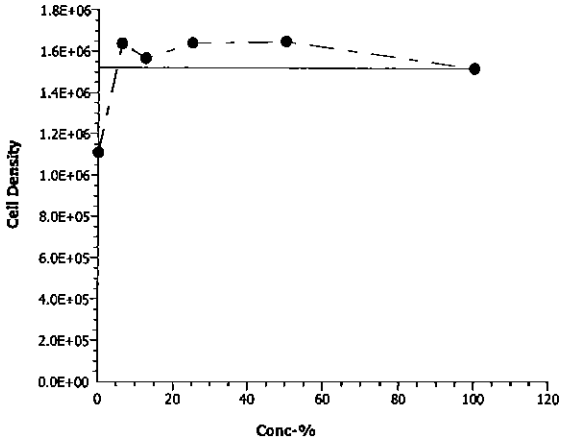
Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.125E+6	1.120E+6	1.179E+6	1.019E+6
6.25		1.638E+6	1.728E+6	1.637E+6	1.553E+6
12.5		1.674E+6	1.507E+6	1.589E+6	1.501E+6
25		1.602E+6	1.612E+6	1.793E+6	1.558E+6
50		1.636E+6	1.596E+6	1.709E+6	1.654E+6
100		1.438E+6	1.524E+6	1.591E+6	1.517E+6

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	10-0161-3853	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.7.0
Analyzed:	02 Dec-10 15:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	12-3138-4567	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	02 Nov-10 13:22	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	06 Nov-10 13:00	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	05-3175-4736	**Code:**	VCF1110339s	**Client:**	VCWPD
Sample Date:	30 Oct-10 04:42	**Material:**	Sample Water	**Project:**	Event 2
Receive Date:	30 Oct-10 08:55	**Source:**	Bioassay Report		
Sample Age:	81h (5.2 °C)	**Station:**	MO-SPA		

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	69			69	69	0	0	0.0%	0
6.25		1	70			70	70	0	0	0.0%	0
12.5		1	64			64	64	0	0	0.0%	0
25		1	65			65	65	0	0	0.0%	0
50		1	50			50	50	0	0	0.0%	0
100		1	23			23	23	0	0	0.0%	0
Overall		6	56.83			23	70				0 (0%)

Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	436.6	434	439.2	429	449	1.283	7.701	1.76%	0
6.25		5	384	382.8	385.2	379	388	0.5893	3.536	0.92%	0
12.5		5	368.2	367.6	368.8	366	370	0.2739	1.643	0.45%	0
25		5	349.6	348.4	350.8	346	355	0.5845	3.507	1.0%	0
50		5	307.2	306.4	308	304	310	0.3979	2.387	0.78%	0
100		5	225.8	224.6	227	220	229	0.594	3.564	1.58%	0
Overall		30	345.2			220	449				0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	115			115	115	0	0	0.0%	0
6.25		1	110			110	110	0	0	0.0%	0
12.5		1	98			98	98	0	0	0.0%	0
25		1	100			100	100	0	0	0.0%	0
50		1	92			92	92	0	0	0.0%	0
100		1	49			49	49	0	0	0.0%	0
Overall		6	94			49	115				0 (0%)

pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	8	7.928	8.072	7.7	8.3	0.03536	0.2121	2.65%	0
6.25		5	8	7.976	8.024	7.9	8.1	0.01179	0.07071	0.88%	0
12.5		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
25		5	7.98	7.952	8.008	7.9	8.1	0.01394	0.08366	1.05%	0
50		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
100		5	7.94	7.91	7.97	7.9	8.1	0.01491	0.08944	1.13%	0
Overall		30	7.973			7.7	8.3				0 (0%)

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
6.25		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
12.5		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
25		5	21.2	17.72	24.68	2.8	25.8	1.714	10.29	48.52%	0
50		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
100		5	25.56	25.51	25.61	25.5	25.8	0.02236	0.1342	0.52%	0
Overall		30	24.83			2.8	25.8				0 (0%)

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	69
6.25		70
12.5		64
25		65
50		50
100		23

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	432	429	435	438	449
6.25		379	382	388	385	386
12.5		366	369	369	370	367
25		346	348	355	351	348
50		304	306	310	309	307
100		220	225	228	229	227

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	115
6.25		110
12.5		98
25		100
50		92
100		49

pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	8	8	8	8.3
6.25		7.9	8	8	8	8.1
12.5		7.9	7.9	8	8	8.1
25		7.9	7.9	8	8	8.1
50		7.9	7.9	7.9	7.9	8.1
100		7.9	7.9	7.9	7.9	8.1

Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	25.8	25.5	25.5	25.5	25.5
6.25		25.8	25.5	25.5	25.5	25.5
12.5		25.8	25.5	25.5	25.5	25.5
25		25.8	25.8	25.8	2.8	25.8
50		25.8	25.5	25.5	25.5	25.5
100		25.8	25.5	25.5	25.5	25.5

10/30/10

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Toxicity - ABC Laboratories

Sampling Date: 10/30/10 Sample Event: EVENT 2

Sampling Team: WBC/DJP

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
[redacted] MO-FIL	10/30/10 05:30 PDT					X	X	X	2	Note 1, Note 2 .334
[redacted] MO-HUE	—					X	X	X	2	Note 1, Note 2 .338
[redacted] MO-OXN	—					X	X	X	2	Note 1, Note 2 .333
[redacted] MO-SPA	10/30/10 04:42 PDT					X	X	X	2	Note 1, Note 2 .339
[redacted] MO-SIM	10/30/10 06:31 PDT					X	X	X	2	Note 1, Note 2 .335
[redacted] MO-MPK	10/30/10 07:14 PDT					X	X	X	2	Note 1, Note 2 336
[redacted] MO-THO	—					X	X	X	2	Note 1, Note 2 .337
[redacted]										

Relinquished
Printed Name: DAVID PANARO
Signature: David Panaro
Affiliation: VCWPD Date/Time: 10-30-10 08:25 PDT

Received
Printed Name: Arnel Rows
Signature: [illegible]
Affiliation: Agatic Brassway Date/Time: 10/30/10 0855

Other Notes:
Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%
Note 2: Please execute TIE if mortality > 50%

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Toxicity - ABC Laboratories

Sampling Date: 10-30-2010 Sample Event: EVENT 2

Sampling Team: KH/CS

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
~~ME-CC~~ MO-OXN	10/30/10 0340	X				X	X	X	2	Note 1, Note 2 333
~~ME-SCR~~ MO-FIL	—				X	X	X	X	2	Note 1, Note 2 334
~~ME-VB2~~ MO-SIM	—	X				X	X	X	2	Note 1, Note 2 335
~~MO-CHM~~ MO-MRK	—					X	X	X	2	Note 1, Note 2 336
~~MO-OJA~~ MO-THO	10/30/10 0500					X	X	X	2	Note 1, Note 2 337
~~MO-MEP~~ MO-HUE	10/30/10 0640					X	X	X	2	Note 1, Note 2 338
~~MO-VEN~~ MO-SPA	—					X	X	X	2	Note 1, Note 2 339
~~MD-1~~										

Relinquished Printed Name CHRIS STEPHENS

Signature

Affiliation VCWPD Date/Tim 10-30-2010 @ 0850HRS

Received Printed Name Arnel Ramos

Signature

Affiliation Aquatic Bioassay Date/Tim 10/30/10 0855

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%

Note 2: Please execute TIE if mortality > 50%

aquatic bioassay & consulting laboratories, inc

December 29, 2010

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

Please find the enclosed report *Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Selenastrum capricornutum Phase 1 Toxicity Identification Evaluation (TIE) for One Sample Collected in October 2010. The sample was identified as MO-MPK and was assigned the lab# VCF1010.336.* The report describes in detail the three TIE analyses that were conducted on the sample that exhibited toxicity. In addition, one 96-hour acute baseline bioassay report is included. This is the initial bioassay test that was conducted on the sample received; the results of which were used to determine whether or not to proceed with TIE manipulations.

Please do not hesitate to contact us if you have any questions regarding this project.

Yours very truly,

Scott Johnson
Laboratory Director

aquatic bioassay & consulting laboratories, inc

VENTURA COUNTY WATERSHED PROTECTION DISTRICT NPDES STORMWATER MONITORING PROGRAM *Selenastrum capricornutum* PHASE 1 TOXICITY IDENTIFICATION EVALUATION (TIE) FOR ONE SAMPLE COLLECTED IN OCTOBER OF 2010

Aquatic Bioassay and Consulting Laboratories, Inc.

29 North Olive Street
Ventura, California 93001

(805) 643-5621

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SUMMARY

During the month of October 2010, one sample was received in this laboratory from the Ventura County Watershed Protection District for the analysis of chronic toxicity of the green algae, *Selenastrum capricornutum*. Initial toxicity tests were used to determine if further evaluations were necessary. The sample demonstrated sufficient toxicity to proceed with Phase 1 Toxicity Identification Evaluations (TIE's). Final analysis of results compared 96-hour IC50's from manipulated samples to that of an unaltered effluent baseline. The following conclusions were drawn from the TIE evaluations:

Based on the results of all sample manipulations treatment with PBO additions to the sample did reduce toxicity more significantly than other treatments. Therefore, metabolically-activated organophosphate compounds are suspect. C18 extraction and sodium thiosulfate additions did reduce toxicity to a lesser degree therefore non-polar organic compounds and chemicals used in disinfection and chlorination also are indicated as sources of toxicity.

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INTRODUCTION

The EPA Phase 1 TIE procedures were designed for the characterization of municipal and industrial effluents and stormwater runoff. After conducting an initial bioassay to determine the level of toxicity in a sample, various manipulations are performed to identify which group of compounds appear to be causing the toxicity. The toxicant groups targeted are volatile or oxidizable compounds, particulate-bound toxins, cationic metals, non-polar organics, and organophosphates. The following manipulations are typically performed:

C_{18}-Solid Phase Extraction uses a sorbent column to evaluate the contribution to sample toxicity of non-polar organic compounds and certain metals or metal chelates. Non-polar compounds are trapped in the column through solubility and polarity interactions with the C_{18}.

Piperonyl Butoxide (PBO) blocks the action of metabolically-activated organophosphate compounds. The addition of PBO therefore reduces toxicity of samples containing organophosphates.

Sodium Thiosulfate neutralizes chemicals used in disinfection, chlorination, and some electrophilic organic chemicals.

At the Phase 1 level of testing, relatively small sample sizes and limited replications make statistical inferences difficult. Often 95% confidence limits on IC50 values are not calculable, and thus the statistical significance of substantial changes in post-manipulation toxicity may not be possible to establish. This is especially true in cases of samples with low to moderate initial 96-hour toxicity (i.e. IC50's greater than 50%). Therefore, considerable latitude must be given when interpreting the results of Phase 1 TIE's.

MATERIALS AND METHODS

The following sample was received in this laboratory under chain-of-custody procedures on the following dates. The sampling containers were new five-gallon poly buckets with sealed lids. The sample was identified as:

MO-MPK VCF1010.336

Chronic growth toxicity tests were used throughout the TIE characterizations (the toxicity pre-screen assessed 96-hour growth data from a 96-hour chronic toxicity test). Initial testing was performed in accordance with *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. If observed growth in the pre-screen exhibited a TUc of >1.00, the TIE process was initiated. An initial 96 hour test of chronic toxicity was set up on Day 1. Sample aliquots were manipulated the day following the end of the baseline test and TIE exposure concentrations, based on growth observed after 96 hours in the initial test, were set up. Final analyses compared *Selenastrum capricornutum* 96-hour IC50's of each manipulated aliquot to that of the unaltered sample.

Procedures of each chemical or physical manipulation followed those described in *Methods for Aquatic Toxicity Identification Evaluations, Phase 1 Toxicity Characterization Procedures* (Second Edition), EPA/600/6-91/003.

Solid phase extraction of the sample utilized a C_{18} column. Two post-column aliquots were subjected to bioassay testing in each treatment. The first aliquot was taken after 25 ml of sample had passed the column to ensure that no dilution water is left in the system. To assess the extent of column overloading and possible toxicant breakthrough, a second aliquot was taken after 150 ml of sample had passed.

Piperonyl butoxide stock solution was added to each 10 ml test aliquot at five rates: 25 ppb, 50 ppb, 100 ppb, 250 ppb and 500 ppb. The stock solution concentration was based on EPA recommendations.

Sodium thiosulfate stock was added to each 10 ml aliquot at five rates: 1.0 ml, 0.8 ml, 0.6 ml, 0.4 ml, and 0.2 ml. The stock solution concentration was based on sodium thiosulfate 96 hour IC50's for *Selenastrum capricornutum*.

Selenastrum capricornutum used in testing is cultured in-house. The algae is cultured in EPA reconstituted freshwater. Initial and baseline tests were conducted with duplicate samples. All subsequent testing of manipulated samples were conducted in duplicate. The test temperature was 25 $\pm$ 1 deg C in an environmental chamber with constant light. Toxicity tests were 96 hours in duration. Growth was the endpoint evaluated for the green algae. Sample concentration ranges for toxicity tests were dependent upon the sample's initial 96-hour LC50. The 96-hour IC50 was 35.9%, therefore a concentration series of ½X, 1X, 2X and 4X the IC50 were used (18, 36, 72, and 100%'s for this sample). For Sodium Thiosulfate, and PBO manipulations, the highest sample concentration of 100% was used.

For TIE comparisons, sample toxicity is expressed in Toxicity Units (TU) which increase directly with toxicity:

$$TU = \frac{100}{IC50}$$

Calculation of IC50s was performed by the linear interpolation method (EPA Bootstrap; 120 iterations).

RESULTS/CONCLUSIONS

SAMPLE MO-MPK

MO-MPK was collected on 30 October 2010, and was received at 0825 hours on 30 October 2010. The sample was assigned laboratory identification number VCF1010.336. A 4 day chronic test was set up on October 30. At the end of 4 days the sample exhibited toxicity (TUc >1.00). TIE procedures were initiated. The 96-hour baseline test yielded an IC50 of 35.9% was observed. Based on this data the dilution series for the TIE test was assigned at 18, 36, 72, & 100%'s. Bioassay results obtained from the manipulated aliquots were compared to the baseline test values and are summarized below:

* Solid phase extraction with C_{18} did reduce toxicity. Therefore, non-polar organic compounds are suspect.

* Treatment of the sample with PBO did reduce the toxicity. Therefore, metabolically-activated organophosphate compounds are suspected toxicants in the sample.

* Additions of sodium thiosulfate did reduce toxicity therefore chemicals used in disinfection, chlorination and some electrophilic organic compounds are suspect.

TUc's For Sample Manipulations of
MO-MPK October 2010
Selenastrum capricornutum

Treatment	LC50	TUc
C18 Extraction		
pH i	67.0%	1.49
Sodium Thiosulfate Additions		
All additions	74.3%	1.35
PBO Additions		
All additions	>100.0%	1.00

APPENDIX 1

RESULTS OF INITIAL BIOASSAY TEST
(BASELINE TEST)

aquatic bioassay & consulting laboratories, inc

November 10, 2011

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MPK TIE Baseline
DATE RECEIVED:	10/30/2010
ABC LAB. NO.:	VCF1010.336

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = <20.5 %
TUc = >4.88

IC25 = 25.33 %
IC50 = 35.93 %

Yours very truly,

Scott Johnson
Laboratory Director

Phytoplankton Test-Growth-Cell Density

Start Date:	11/10/2010	Test ID:	VCF1010336	Sample ID:	CA0053597
End Date:	11/14/2010	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	10/30/2010	Protocol:	EPA-821R-02-013	Test Species:	SC-Selenastrum capricornutum
Comments:	MO-MPK- TIE Baseline				

Conc-%	1	2	3	4
N Control	1642000	1711000	1576000	1509000
20.5	1494000	1377000	1292000	1400000
41	615000	616000	601000	616000
82	195000	223000	223000	227000
100	168000	155000	149000	152000

			Transform: Untransformed						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	1609500	1.0000	1609500	1509000	1711000	5.390	4				1609500	1.0000
*20.5	1390750	0.8641	1390750	1292000	1494000	5.971	4	5.693	2.360	90684.4	1390750	0.8641
*41	612000	0.3802	612000	601000	616000	1.201	4	25.959	2.360	90684.4	612000	0.3802
*82	217000	0.1348	217000	195000	227000	6.814	4	36.239	2.360	90684.4	217000	0.1348
*100	156000	0.0969	156000	149000	168000	5.363	4	37.826	2.360	90684.4	156000	0.0969

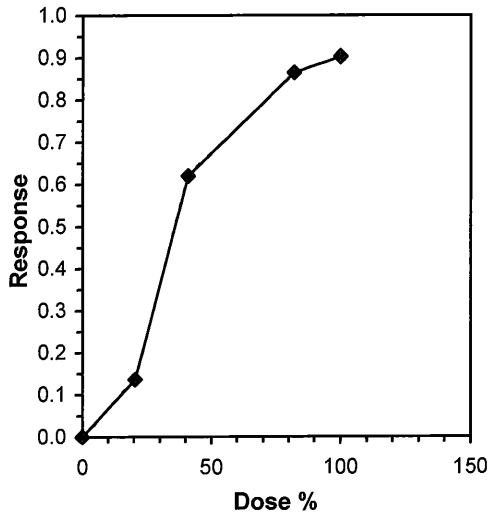
Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.01)	0.84731	0.868	0.0801	2.03763
Bartlett's Test indicates unequal variances (p = 1.48E-04)	22.6669	13.2767		

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test Treatments vs N Control	<20.5	20.5			90684.4	0.05634	1.8E+12	3E+09	2.2E-16	4, 15

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)		Skew
IC05*	7.542	2.310	4.040	16.966	2.3024
IC10*	15.083	3.151	8.081	25.186	0.5708
IC15	21.097	1.973	13.038	24.609	-0.7611
IC20	23.215	1.186	19.494	26.369	-0.1144
IC25	25.334	1.063	21.875	28.179	0.0133
IC40	31.689	0.759	29.207	33.860	-0.0642
IC50	35.926	0.575	33.998	37.641	-0.1610

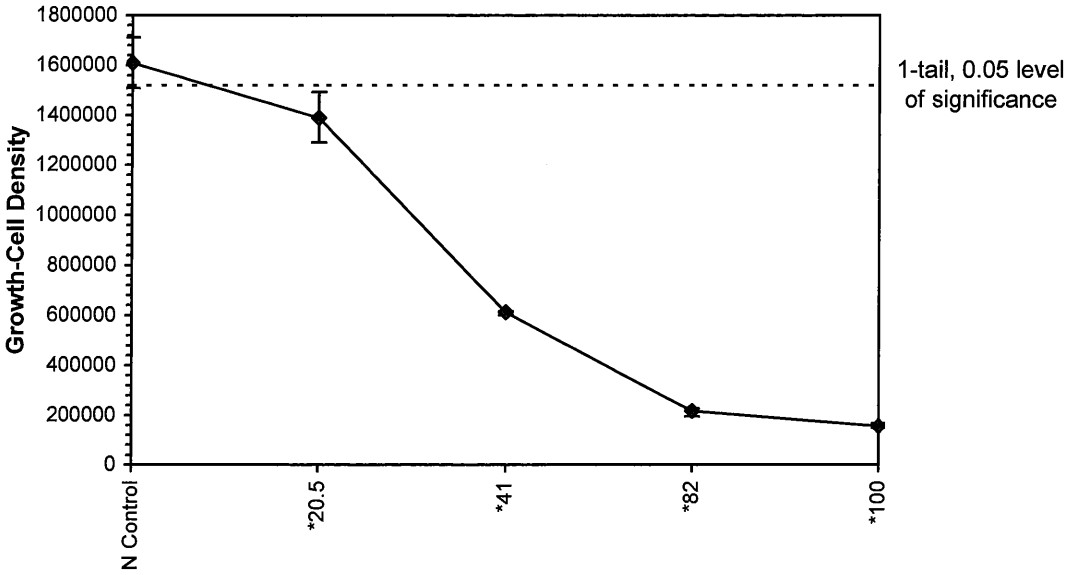
* indicates IC estimate less than the lowest concentration



Phytoplankton Test-Growth-Cell Density

Start Date:	11/10/2010	Test ID:	VCF1010336	Sample ID:	CA0053597
End Date:	11/14/2010	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	10/30/2010	Protocol:	EPA-821R-02-013	Test Species:	SC-Selenastrum capricornutum
Comments:	MO-MPK- TIE Baseline				

Dose-Response Plot



Phytoplankton Test-Growth-Cell Density

Start Date:	11/10/2010	Test ID:	VCF1010336	Sample ID:	CA0053597
End Date:	11/14/2010	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	10/30/2010	Protocol:	EPA-821R-02-013	Test Species:	SC-Selenastrum capricornutum
Comments:	MO-MPK- TIE Baseline				

Auxiliary Data Summary

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.90	24.80	25.00	0.10	1.27	3
20.5		24.90	24.80	25.00	0.10	1.27	3
41		24.90	24.80	25.00	0.10	1.27	3
82		24.90	24.80	25.00	0.10	1.27	3
100		24.90	24.80	25.00	0.10	1.27	3
N Control	pH	7.93	7.70	8.10	0.21	5.75	3
20.5		7.97	7.80	8.10	0.15	4.91	3
41		7.93	7.80	8.00	0.12	4.28	3
82		7.93	7.80	8.00	0.12	4.28	3
100		7.90	7.70	8.00	0.17	5.27	3
N Control	Hardness mg/l	98.00	98.00	98.00	0.00	0.00	3
20.5		119.00	119.00	119.00	0.00	0.00	3
41		116.00	116.00	116.00	0.00	0.00	3
82		111.00	111.00	111.00	0.00	0.00	3
100		113.00	113.00	113.00	0.00	0.00	3
N Control	Alkalinity mg/l	64.00	64.00	64.00	0.00	0.00	3
20.5		62.00	62.00	62.00	0.00	0.00	3
41		60.00	60.00	60.00	0.00	0.00	3
82		55.00	55.00	55.00	0.00	0.00	3
100		54.00	54.00	54.00	0.00	0.00	3
N Control	Conductivity	383.00	381.00	386.00	2.65	0.42	3
20.5		370.00	365.00	375.00	5.00	0.60	3
41		359.33	353.00	363.00	5.51	0.65	3
82		341.33	338.00	346.00	4.16	0.60	3
100		340.00	337.00	343.00	3.00	0.51	3

Chain of Custody Record
Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Toxicity - ABC Laboratories

Sampling Date: 10/30/10 Sample Event: EVENT 2

Sampling Team: WBC / DJP

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
~~ME-CC~~ MO-FIL	10/30/10 05:30 PDT					X	X	X	2	Note 1, Note 2 .334
~~ME-SCR~~ MO-HUE	—					X	X	X	2	Note 1, Note 2 .338
~~[illegible]~~ MO-OXN	—					X	X	X	2	Note 1, Note 2 .333
~~[illegible]~~ MO-SPA	10/30/10 04:42 PDT					X	X	X	2	Note 1, Note 2 .339
~~MO-OJA~~ MO-SIM	10/30/10 06:31 PDT					X	X	X	2	Note 1, Note 2 .335
~~MO-MPK~~ MO-MPK	10/30/10 07:14 PDT					X	X	X	2	Note 1, Note 2 336
~~MO-VEN~~ MO-THO	—					X	X	X	2	Note 1, Note 2 .337
~~[illegible]~~										

Relinquished
Printed Name: DAVID PANARO
Signature: David Panaro
Affiliation: VCWPD Date/Time: 10-30-10 08:25 PDT

Received
Printed Name: Ariel Rowes
Signature: [illegible]
Affiliation: Agatic Brassway Date/Time: 10/30/10 0855

Other Notes:
Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%
Note 2: Please execute TIE if mortality > 50%

Temp 5.2

Appendix J. Dry-Weather Analytical Monitoring Results

	Site ID	Port Hueneme-3	Santa Paula-2	Unincorporated-2
		DRY-HUE3	DRY-SPA2	DRY-UNI2
	At Major Outfall?	No	No	No
	Location	Bubbling Springs @ RR xing	Fagan Canyon 100 yds. d/s Harvard Blvd.	MCW-12 Medea Creek @ Tamarind
	Date	08/18/11	08/17/11	08/23/11
	Time	0950	755	940
Site Description	Conveyence Type	Natural channel	Box culvert	Natural channel
	Dimensions	N/A	20' x 65'	N/A
	Dominant Land Use	Commercial & residential	Commercial & residential	Residential & rural
	Site Elevation	10	250	1000
Weather	Weather	Clear	Clear	Clear
	Wind Condtion	Slight breeze	Calm	Calm
	Air Temp. (^{0}F)	70	62	77
Trash	Trash (general area)	Light	Light	Light
	Trash (stream banks)	Moderate	High	Light
Observations	Water Clarity	Muddy	Clear	Clear
	Water Color	Clear	Clear	Clear
	Odors	Other	None	None
	Floatables	None	None	None
	Foam	N/A	N/A	N/A
	Stains/ deposits	N/A	Brown stain	White deposit at waterline
	Structural condition	Natural channel	Concrete channel	Rip-rap with natural bottom
	Vegetation Condition	Lawns surrounding channel	N/A	Minimal veg. Area maintained/weeds treated regularly with herbicide
	Biology	Many ducks	N/A	N/A
	Algae (suspended)	N/A	N/A	Green / 5%
	Algae (substrate)	N/A	Green	Green 30%, brown 50%
Water Chemistry (Field)	Dissolved Oxygen (%)	79.2	90.3	140.1
	Dissolved Oxygen (mg/L)	7.08	8.73	12.28
	Conductivity (µS)	1946	1119	3430
	Specific Conductance (µS)	2176	1327	3700
	Salinity (ppt)	1.1	0.7	2.0
	Water Temp. (^{0}C)	19.4	16.8	21.2
	Water Temp. (^{0}F)	66.9	62.2	70.2
	pH	7.8	8.31	7.97
	Turbidity (NTU)	11.83	1.33	1.75
Water Chemistry (Lab)	Total Organic Carbon (mg/L)	6.9	2.9	5.6
	Total Hardness as $CaCO_3$ (mg/L)	930	580	2100
	Total Calcium (mg/L)	240	140	330
	Total Magnesium (mg/L)	79	54	310
	Dissolved Copper (µg/L)	0.87	0.65	1.4
	Dissolved Lead (µg/L)	ND	ND	DNQ
	Dissolved Zinc (µg/L)	DNQ	DNQ	DNQ
	Total Coliform (MPN/100 mL)	72,700	77,010	
	E. coli (MPN/100 mL)	24,192	2,282	185
Estimated Flow	Flow Status	Flowing	Flowing	Flowing
	Water Width (ft.)	10.0	4.0	5.0
	Water Depth (ft.)	0.40	0.05	0.10
	Flow Velocity (ft/s)	0.15	1.00	1.00
	Flow Rate (ft^3/s)	0.60	0.20	0.50
	Comments	Sampled upstream MO location	Samples taken 100 yds. d/s Harvard Blvd. on Fagan Canyon	

	Site ID	Camarillo-1	Fillmore-1	Moorpark-1
		MO-CAM	MO-FIL	MO-MPK
	At Major Outfall?	Yes	Yes	Yes
	Location	Camarillo Hills Drain	North Fillmore Drain	Gabbert Drain
	Date	08/18/11	08/17/11	08/18/11
	Time	855	645	655
Site Description	Conveyence Type	Box culvert	Box culvert	Box culvert
	Dimensions	8' x 20'	N/A	5' x 12'
	Dominant Land Use	Commercial & residential	Residential	Commercial & residential
	Site Elevation	100	430	460
Weather	Weather	Clear	Clear	Clear
	Wind Condtion	Slight breeze	Calm	Calm
	Air Temp. (^{0}F)	69	58	58
Trash	Trash (general area)	Light	Light	Moderate
	Trash (stream banks)	Light	Moderate	Moderate
Observations	Water Clarity	Clear	Other	Clear
	Water Color	Clear	Clear	Red
	Odors	None	None	None
	Floatables	None	None	None
	Foam	N/A	N/A	N/A
	Stains/ deposits	N/A	N/A	Red deposit
	Structural condition	Concrete channel	Natural channel below flap gate	Concrete channel
	Vegetation Condition	N/A	Many cattails and willows	Grasses, mustard
	Biology	N/A	1 fish approximately 6" long	Gopher in channel
	Algae (suspended)	Green / 5%	N/A	N/A
	Algae (substrate)	Green / 80%	N/A	N/A
Water Chemistry (Field)	Dissolved Oxygen (%)	105.8	73.7	73.5
	Dissolved Oxygen (mg/L)	9.73	6.71	7.18
	Conductivity (µS)	472	1239	37.2
	Specific Conductance (µS)	531	1379	44.4
	Salinity (ppt)	0.3	0.7	0.0
	Water Temp. (^{0}C)	19.4	19.7	16.7
	Water Temp. (^{0}F)	66.9	67.5	62.1
	pH	8.44	7.73	8.53
	Turbidity (NTU)	9.56	1.97	10.47
Water Chemistry (Lab)	Total Organic Carbon (mg/L)	3.4	3.4	180
	Total Hardness as $CaCO_3$ (mg/L)	190	640	690
	Total Calcium (mg/L)	48	170	170
	Total Magnesium (mg/L)	17	53	65
	Dissolved Copper (µg/L)	2.1	1.8	9.4
	Dissolved Lead (µg/L)	DNQ	ND	0.24
	Dissolved Zinc (µg/L)	DNQ	5.9	12.0
	Total Coliform (MPN/100 mL)	3,654	17,239	1,203,300
	E. coli (MPN/100 mL)	74	512	6,867
Estimated Flow	Flow Status	Flowing	Flowing	Flowing
	Water Width (ft.)	4.0	15.0	2.0
	Water Depth (ft.)	0.05	3.00	0.02
	Flow Velocity (ft/s)	0.25	0.05	0.25
	Flow Rate (ft^3/s)	0.05	2.25	0.01
	Comments		Congested willow and cattail growth in channel	Some ponded water at site, dry up channel, but new flow coming downstream slowly

	Site ID	Ojai-1	Oxnard-1	Simi Valley-1
		MO-OJA	MO-OXN	MO-SIM
	At Major Outfall?	Yes	Yes	Yes
	Location	Fox Barranca	El Rio Drain below Ventura Rd.	Bus Canyon Drain
	Date	08/17/11	08/17/11	08/18/11
	Time	900	1040	735
Site Description	Conveyence Type	Box culvert	Box culvert	Box culvert
	Dimensions	N/A	6' x 12'	7' x 15'
	Dominant Land Use	Residential	Commercial & residential	Commercial & residential
	Site Elevation	720	60	760
Weather	Weather	Clear	Clear	Clear
	Wind Condtion	Calm	Slight breeze	Calm
	Air Temp. (^{0}F)	70	70	62
Trash	Trash (general area)	Light	Light	Light
	Trash (stream banks)	Moderate	Moderate	Moderate
Observations	Water Clarity	Clear	Clear	Clear
	Water Color	Clear	Other	Clear
	Odors	None	None	None
	Floatables	None	None	None
	Foam	N/A	N/A	N/A
	Stains/ deposits	N/A	N/A	N/A
	Structural condition	Concrete channel	Concrete channel	Concrete channel
	Vegetation Condition	Invasives - english ivy, mexican pepper	Some grasses/watercress in channel	N/A
	Biology	Dragonflies	Bugs - many swimmers & skaters	N/A
	Algae (suspended)	Green / 5%	Green / 1%	N/A
	Algae (substrate)	Green / 50%	N/A	Green / 40%
Water Chemistry (Field)	Dissolved Oxygen (%)	100.6	143.5	91.4
	Dissolved Oxygen (mg/L)	9.18	11.05	8.36
	Conductivity (µS)	1645	1108	2770
	Specific Conductance (µS)	1834	1027	3115
	Salinity (ppt)	0.9	0.5	1.6
	Water Temp. (^{0}C)	19.6	29.0	19.2
	Water Temp. (^{0}F)	67.3	84.2	66.6
	pH	7.96	9.26	7.85
	Turbidity (NTU)	3.86	12.67	0.82
Water Chemistry (Lab)	Total Organic Carbon (mg/L)	4.6	8.9	2.6
	Total Hardness as $CaCO_3$ (mg/L)	740	360	1500
	Total Calcium (mg/L)	180	78	350
	Total Magnesium (mg/L)	72	39	150
	Dissolved Copper (µg/L)	1.7	15	1.5
	Dissolved Lead (µg/L)	ND	0.28	ND
	Dissolved Zinc (µg/L)	DNQ	DNQ	DNQ
	Total Coliform (MPN/100 mL)	29,870	81,640	81,640
	E. coli (MPN/100 mL)	4,569	6,867	171
Estimated Flow	Flow Status	Flowing	Flowing	Flowing
	Water Width (ft.)	7.0	5.0	12.0
	Water Depth (ft.)	0.05	0.02	0.10
	Flow Velocity (ft/s)	1.00	0.20	1.00
	Flow Rate (ft^3/s)	0.35	0.02	1.20
	Comments	Samples taken ds of intake, in natural bottom channel	Remeasured pH 9.29	

	Site ID	Thousand Oaks-1	Ventura-1
		MO-THO	MO-VEN
	At Major Outfall?	Yes	Yes
	Location	Hill Canyon WWTP	Moon Ditch
	Date	08/18/11	08/17/11
	Time	820	1010
Site Description	Conveyence Type	Natural channel	Trapezoidal channel
	Dimensions	N/A	N/A
	Dominant Land Use	Commercial, residential & rural	Commercial & residential
	Site Elevation	280	70
Weather	Weather	Clear	Clear
	Wind Condtion	Slight breeze	Slight breeze
	Air Temp. (^{0}F)	64	73
Trash	Trash (general area)	None	Light
	Trash (stream banks)	None	Light
Observations	Water Clarity	Clear	Clear
	Water Color	Clear	Clear
	Odors	None	None
	Floatables	None	None
	Foam	N/A	N/A
	Stains/ deposits	N/A	N/A
	Structural condition	Rip-rap with natural bottom	Concrete channel
	Vegetation Condition	Healthy	Some grasses, reeds in concrete joins in channel
	Biology	Fish <1" long	N/A
	Algae (suspended)	N/A	Green / 5%
	Algae (substrate)	N/A	Green / 5%, Brown / 5%
Water Chemistry (Field)	Dissolved Oxygen (%)	89.7	120.5
	Dissolved Oxygen (mg/L)	8.46	9.50
	Conductivity (µS)	1676	4280
	Specific Conductance (µS)	1943	4107
	Salinity (ppt)	1.0	2.2
	Water Temp. (^{0}C)	17.8	27.2
	Water Temp. (^{0}F)	64.0	8.5
	pH	8.27	8.52
	Turbidity (NTU)	0.80	1.95
Water Chemistry (Lab)	Total Organic Carbon (mg/L)	3.0	9.0
	Total Hardness as $CaCO_3$ (mg/L)	750	1200
	Total Calcium (mg/L)	110	250
	Total Magnesium (mg/L)	120	140
	Dissolved Copper (µg/L)	1.7	22
	Dissolved Lead (µg/L)	DNQ	0.49
	Dissolved Zinc (µg/L)	DNQ	21.0
	Total Coliform (MPN/100 mL)	12,033	980,400
	E. coli (MPN/100 mL)	132	226
Estimated Flow	Flow Status	Flowing	Flowing
	Water Width (ft.)	10.0	20.0
	Water Depth (ft.)	1.00	0.05
	Flow Velocity (ft/s)	0.20	0.25
	Flow Rate (ft^3/s)	2.00	0.25
	Comments		