



*Ventura Countywide  
Stormwater Quality  
Management Program*

**2011-2012  
Permit Year**

Ventura Countywide Stormwater Quality  
Management Program Annual Report

**Attachment E:  
Water Quality Monitoring Report  
Appendices G through J**



**December 15, 2012**

Camarillo  
County of Ventura  
Fillmore  
Moorpark  
Ojai  
Oxnard  
Port Hueneme  
Santa Paula  
Simi Valley  
Thousand Oaks  
Ventura  
Ventura County Watershed Protection  
District

## **Attachment E: Water Quality Monitoring Report Appendices**

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## **Appendix G. Laboratory Environmental Analysis Results**

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/16/2012 8:35:00 AM	E. Coli	n/a	=	9804	MPN/100 mL	MMO-MUG	10	10	VCHCA	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/16/2012 8:35:00 AM	Total Coliform	n/a	=	27800	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/24/2012	Calcium	Total	=	190	mg/L	EPA 200.7	0.016	0.1	WKL	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/24/2012	Magnesium	Total	=	65	mg/L	EPA 200.7	0.012	0.1	WKL	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/15/2012 12:10:00 PM	Conductivity	n/a	=	2187	µmhos/cm	Field Meter	-88	1	Field Crew	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/15/2012 12:10:00 PM	Discharge	n/a	=	3.6	cfs	Field Meter	-88	-88	Field Crew	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/15/2012 12:10:00 PM	DO	n/a	=	3.89	mg/L	Field Meter	-88	0.3	Field Crew	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/15/2012 12:10:00 PM	DO	n/a	=	45.2	%	Field Meter	-88	0.1	Field Crew	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/24/2012	Hardness as CaCO3	Total	=	750	mg/L	EPA 200.7	0.089	0.66	WKL	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/15/2012 12:10:00 PM	pH	n/a	=	7.6	pH Units	Field Meter	-88	0.01	Field Crew	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/15/2012 12:10:00 PM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/15/2012 12:10:00 PM	Specific Conductance	n/a	=	2430	µmhos/cm	Field Meter	-88	1	Field Crew	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/15/2012 12:10:00 PM	Temperature	n/a	=	21.2	°C	Field Meter	-88	0.1	Field Crew	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/22/2012	Total Organic Carbon	n/a	=	5	mg/L	SM 5310 C	0.036	1.2	WKL	D
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/15/2012 12:10:00 PM	Turbidity	n/a	=	16.17	NTU	Field Meter	-88	0.01	Field Crew	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/24/2012	Copper	Dissolved	<	0.27	µg/L	EPA 200.8	0.27	0.5	WKL	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/24/2012	Copper	Total	=	0.73	µg/L	EPA 200.8	0.27	0.5	WKL	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/24/2012	Lead	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.2	WKL	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/24/2012	Lead	Total	=	1.1	µg/L	EPA 200.8	0.011	0.2	WKL	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/24/2012	Zinc	Dissolved	DNQ	2.5	µg/L	EPA 200.8	1.1	5	WKL	
DRY-HUE3	2012-DRY	Dry	8/15/2012 12:10:00 PM	8/24/2012	Zinc	Total	=	5.1	µg/L	EPA 200.8	1.1	5	WKL	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/16/2012 8:35:00 AM	E. Coli	n/a	=	63	MPN/100 mL	MMO-MUG	10	10	VCHCA	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/16/2012 8:35:00 AM	Total Coliform	n/a	=	41000	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/24/2012	Calcium	Total	=	150	mg/L	EPA 200.7	0.016	0.1	WKL	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/24/2012	Magnesium	Total	=	41	mg/L	EPA 200.7	0.012	0.1	WKL	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/15/2012 9:45:00 AM	Conductivity	n/a	=	1531	µmhos/cm	Field Meter	-88	1	Field Crew	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/15/2012 9:45:00 AM	Discharge	n/a	=	0.34	cfs	Field Meter	-88	-88	Field Crew	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/15/2012 9:45:00 AM	DO	n/a	=	106	%	Field Meter	-88	0.1	Field Crew	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/15/2012 9:45:00 AM	DO	n/a	=	9.22	mg/L	Field Meter	-88	0.3	Field Crew	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/24/2012	Hardness as CaCO3	Total	=	530	mg/L	EPA 200.7	0.089	0.66	WKL	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/15/2012 9:45:00 AM	pH	n/a	=	8.22	pH Units	Field Meter	-88	0.01	Field Crew	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/15/2012 9:45:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/15/2012 9:45:00 AM	Specific Conductance	n/a	=	1607	µmhos/cm	Field Meter	-88	1	Field Crew	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/15/2012 9:45:00 AM	Temperature	n/a	=	22.5	°C	Field Meter	-88	0.1	Field Crew	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/22/2012	Total Organic Carbon	n/a	=	2	mg/L	SM 5310 C	0.018	0.6	WKL	D
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/15/2012 9:45:00 AM	Turbidity	n/a	=	5	NTU	Field Meter	-88	0.01	Field Crew	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/24/2012	Copper	Dissolved	=	0.98	µg/L	EPA 200.8	0.27	0.5	WKL	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/24/2012	Copper	Total	=	2.8	µg/L	EPA 200.8	0.27	0.5	WKL	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/24/2012	Lead	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.2	WKL	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/24/2012	Lead	Total	=	0.43	µg/L	EPA 200.8	0.011	0.2	WKL	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/24/2012	Zinc	Dissolved	DNQ	4.8	µg/L	EPA 200.8	1.1	5	WKL	
DRY-SPA2	2012-DRY	Dry	8/15/2012 9:45:00 AM	8/24/2012	Zinc	Total	=	10	µg/L	EPA 200.8	1.1	5	WKL	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/17/2012 6:48:00 AM	E. Coli	n/a	=	281	MPN/100 mL	MMO-MUG	10	10	VCHCA	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/17/2012 6:48:00 AM	Total Coliform	n/a	=	344800	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Calcium	Total	=	120	mg/L	EPA 200.7	0.016	0.1	WKL	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Magnesium	Total	=	63	mg/L	EPA 200.7	0.012	0.1	WKL	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Conductivity	n/a	=	93.7	µmhos/cm	Field Meter	-88	1	Field Crew	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Discharge	n/a	=	0.04	cfs	Field Meter	-88	-88	Field Crew	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	DO	n/a	=	12.21	mg/L	Field Meter	-88	0.3	Field Crew	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	DO	n/a	=	151.5	%	Field Meter	-88	0.1	Field Crew	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Hardness as CaCO3	Total	=	570	mg/L	EPA 200.7	0.089	0.66	WKL	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	pH	n/a	=	7.86	pH Units	Field Meter	-88	0.01	Field Crew	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Specific Conductance	n/a	=	91.9	µmhos/cm	Field Meter	-88	1	Field Crew	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Temperature	n/a	=	26.3	°C	Field Meter	-88	0.1	Field Crew	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/22/2012	Total Organic Carbon	n/a	=	4.7	mg/L	SM 5310 C	0.036	1.2	WKL	D
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Turbidity	n/a	=	3.48	NTU	Field Meter	-88	0.01	Field Crew	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Copper	Dissolved	=	2.1	µg/L	EPA 200.8	0.27	0.5	WKL	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Copper	Total	=	3.1	µg/L	EPA 200.8	0.27	0.5	WKL	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Lead	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.011	0.2	WKL	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Lead	Total	DNQ	0.1	µg/L	EPA 200.8	0.011	0.2	WKL	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Zinc	Dissolved	DNQ	2.5	µg/L	EPA 200.8	1.1	5	WKL	
DRY-UNI2	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Zinc	Total	DNQ	3.1	µg/L	EPA 200.8	1.1	5	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	DCPA (Dacthal)	n/a	=	0.9	µg/L	EPA 515.3	0.07	0.1	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	Pentachlorophenol	n/a	=	4.8	µg/L	EPA 515.3	0.04	0.2	WKL	
C pipe at MPK	2011/12-1	Wet	10/5/2011 1:15:00 PM	10/13/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	GB
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	DCPA (Dacthal)	n/a	=	0.47	µg/L	EPA 515.3	0.07	0.1	WKL	GB
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	Pentachlorophenol	n/a	=	3.1	µg/L	EPA 515.3	0.04	0.2	WKL	
C pipe at MPK	2011/12-2	Wet	1/21/2012 10:27:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	GB
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	DCPA (Dacthal)	n/a	=	0.69	µg/L	EPA 515.3	0.07	0.1	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	Pentachlorophenol	n/a	=	0.58	µg/L	EPA 515.3	0.04	0.2	WKL	
C Pipe at MPK	2011/12-1	Wet	10/5/2011 1:25:00 PM	10/13/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	DCPA (Dacthal)	n/a	=	0.53	µg/L	EPA 515.3	0.07	0.1	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Pentachlorophenol	n/a	=	5.8	µg/L	EPA 515.3	0.04	0.2	WKL	
C Pipe at MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/6/2011 9:35:00 AM	E. Coli	n/a	=	2063	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/6/2011 2:45:00 PM	Enterococcus	n/a	=	750	MPN/100 mL	Enterolert	100	100	VCHCA	D
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/9/2011 12:40:00 PM	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/6/2011 9:35:00 AM	Total Coliform	n/a	=	29870	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	Conductivity	n/a	=	1170	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/17/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	DO	n/a	=	71	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	DO	n/a	=	6.8	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	pH	n/a	=	7.6	pH Units	Field Meter	-88	0.01	Field Crew	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	Salinity	n/a	=	700	mg/L	Field Meter	-88	100	Field Crew	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	Specific Conductance	n/a	=	1320	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	Temperature	n/a	=	18.4	°C	Field Meter	-88	0.1	Field Crew	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/6/2011	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-CC	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/6/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Chloride	n/a	=	100	mg/L	EPA 300.0	1	5	WKL	D
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Fluoride	n/a	=	0.31	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/11/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/11/2011	Calcium	Total	=	66	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/11/2011	Magnesium	Total	=	42	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/17/2011	Alkalinity as CaCO3	n/a	=	130	mg/L	SM 2320 B	0.56	2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/14/2011	BOD	n/a	=	9.9	mg/L	SM 5210 B	0.1	2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/10/2011	COD	n/a	=	170	mg/L	EPA 410.4	0.73	5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/11/2011	Hardness as CaCO3	Total	=	340	mg/L	EPA 200.7	0.089	0.66	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/7/2011	MBAS	n/a	DNQ	0.027	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/17/2011	Phenolics	n/a	=	0.067	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	Specific Conductance	n/a	=	800	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/6/2011 8:04:00 PM	Total Chlorine Residual	n/a	DNQ	0.02	mg/L	SM 4500-C1 G	0.015	0.5	WKL	BV, D
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Total Dissolved Solids	n/a	=	800	mg/L	SM 2540 C	4	10	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/26/2011	Total Organic Carbon	n/a	=	17	mg/L	SM 5310 C	0.072	2.4	WKL	D
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Total Suspended Solids	n/a	=	80	mg/L	SM 2540 D	5	5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/7/2011	Turbidity	n/a	=	520	NTU	EPA 180.1	0.024	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Volatile Suspended Solids	n/a	=	13	mg/L	EPA 160.4	3.1	5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Aluminum	Dissolved	=	9.2	µg/L	EPA 200.8	0.61	5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Aluminum	Total	=	7900	µg/L	EPA 200.8	6.1	50	WKL	D
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Antimony	Dissolved	=	0.92	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Antimony	Total	=	0.81	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Arsenic	Dissolved	=	3.8	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Arsenic	Total	=	6.2	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Barium	Total	=	110	µg/L	EPA 200.8	0.03	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Beryllium	Total	=	0.38	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Cadmium	Dissolved	=	0.15	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Cadmium	Total	=	1.1	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Chromium	Dissolved	=	0.31	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Chromium	Total	=	26	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/10/2011	Chromium VI	n/a	DNQ	0.081	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Copper	Dissolved	=	3.6	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Copper	Total	=	30	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/11/2011	Iron	Dissolved	=	75	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/11/2011	Iron	Total	=	14000	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Lead	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Lead	Total	=	9.9	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/10/2011	Mercury	Dissolved	DNQ	27	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/10/2011	Mercury	Total	DNQ	46	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Nickel	Dissolved	=	6.3	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Nickel	Total	=	31	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Selenium	Dissolved	=	1.7	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Selenium	Total	=	2.2	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Silver	Total	DNQ	0.18	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Thallium	Total	DNQ	0.15	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Zinc	Dissolved	=	10	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/12/2011	Zinc	Total	=	91	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	Ammonia as N	n/a	=	0.64	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/7/2011	Nitrate + Nitrite as N	n/a	=	3.7	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/7/2011	Nitrate as N	n/a	=	3.7	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Phosphorus as P	Dissolved	=	1	mg/L	EPA 365.1	0.035	0.25	WKL	D
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/14/2011	Phosphorus as P	Total	=	4	mg/L	EPA 365.1	0.035	0.25	WKL	D
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/17/2011	TKN	n/a	=	7.4	mg/L	EPA 351.2	0.15	0.2	WKL	D
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	H
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Butyl benzyl phthalate	n/a	DNQ	0.2	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Diethyl phthalate	n/a	DNQ	0.52	µg/L	EPA 625	0.15	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/29/2011	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/24/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	4,4'-DDE	n/a	DNQ	0.0099	µg/L	EPA 608	0.0025	0.05	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	4,4'-DDT	n/a	DNQ	0.0064	µg/L	EPA 608	0.0031	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	DCPA (Dacthal)	n/a	=	1.2	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Diazinon	n/a	DNQ	0.0055	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/17/2011	Glyphosate	n/a	=	18	µg/L	EPA 547	1.8	5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Malathion	n/a	=	0.06	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/18/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/25/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/19/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2011/12-1	Wet	10/6/2011 9:55:00 AM	10/21/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	4352	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/22/2012 9:01:00 AM	Enterococcus	n/a	=	4530	MPN/100 mL	Enterolert	100	100	VCHCA	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/25/2012 9:03:00 AM	Fecal Coliform	n/a	=	5000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	98040	MPN/100 mL	MMO-MUG	100	100	VCHCA	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	Conductivity	n/a	=	1001	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB, IL
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	DO	n/a	=	86.4	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	DO	n/a	=	8.75	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	pH	n/a	=	7.9	pH Units	Field Meter	-88	0.01	Field Crew	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	Specific Conductance	n/a	=	1235	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	Temperature	n/a	=	14.9	°C	Field Meter	-88	0.1	Field Crew	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/23/2012	Oil and Grease	n/a	DNQ	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/23/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/23/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/25/2012	Chloride	n/a	=	67	mg/L	EPA 300.0	1	5	WKL	D
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/26/2012	Fluoride	n/a	=	0.27	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/26/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/23/2012	Calcium	Total	=	56	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/23/2012	Magnesium	Total	=	29	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Alkalinity as CaCO3	n/a	=	110	mg/L	SM 2320 B	0.56	10	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/27/2012	BOD	n/a	=	4.7	mg/L	SM 5210 B	0.1	2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/26/2012	COD	n/a	=	54	mg/L	EPA 410.4	0.73	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/23/2012	Hardness as CaCO3	Total	=	260	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/22/2012	MBAS	n/a	DNQ	0.047	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Phenolics	n/a	=	0.014	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/24/2012	Specific Conductance	n/a	=	580	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/21/2012 6:26:00 PM	Total Chlorine Residual	n/a	DNQ	0.15	mg/L	SM 4500-Cl G	0.006	0.2	WKL	BV, D
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/25/2012	Total Dissolved Solids	n/a	=	410	mg/L	SM 2540 C	4	10	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/26/2012	Total Organic Carbon	n/a	=	7.3	mg/L	SM 5310 C	0.036	1.2	WKL	D
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/24/2012	Total Suspended Solids	n/a	=	650	mg/L	SM 2540 D	5	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/22/2012	Turbidity	n/a	=	55	NTU	EPA 180.1	0.024	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/24/2012	Volatile Suspended Solids	n/a	=	85	mg/L	EPA 160.4	3.1	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Aluminum	Dissolved	=	12	µg/L	EPA 200.8	0.61	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Aluminum	Total	=	9000	µg/L	EPA 200.8	0.61	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Antimony	Dissolved	DNQ	0.33	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Antimony	Total	DNQ	0.46	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Arsenic	Dissolved	=	3.8	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Arsenic	Total	=	7.3	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Barium	Total	=	140	µg/L	EPA 200.8	0.03	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Beryllium	Total	=	0.54	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Cadmium	Dissolved	=	0.2	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Cadmium	Total	=	1.3	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Chromium	Dissolved	=	0.3	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Chromium	Total	=	23	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/23/2012	Chromium VI	n/a	DNQ	0.16	µg/L	EPA 218.6	0.0059	0.3	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Copper	Dissolved	=	8.4	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Copper	Total	=	27	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/23/2012	Iron	Dissolved	=	28	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/23/2012	Iron	Total	=	16000	µg/L	EPA 200.7	1.1	10	WKL	GB
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Lead	Dissolved	DNQ	0.08	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Lead	Total	=	13	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/24/2012	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/24/2012	Mercury	Total	DNQ	37	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Nickel	Dissolved	=	2.8	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Nickel	Total	=	28	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Selenium	Dissolved	=	0.89	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Selenium	Total	=	1.1	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Thallium	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Thallium	Total	=	0.2	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Zinc	Dissolved	=	11	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/28/2012	Zinc	Total	=	93	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/27/2012	Ammonia as N	n/a	=	0.41	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/21/2012 5:30:00 PM	Nitrate + Nitrite as N	n/a	=	3.8	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/21/2012 5:51:00 PM	Nitrate as N	n/a	=	3.7	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Phosphorus as P	Dissolved	=	1.4	mg/L	EPA 365.1	0.07	0.5	WKL	D
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Phosphorus as P	Total	=	2.9	mg/L	EPA 365.1	0.07	0.5	WKL	D
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/27/2012	TKN	n/a	=	0.73	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Benzo(a)pyrene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Diethyl phthalate	n/a	DNQ	0.39	µg/L	EPA 625	0.15	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Hexachloropyrene	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	4,4'-DDE	n/a	DNQ	0.025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	GB
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Chlorpyrifos	n/a	=	0.26	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	DCPA (Daacthal)	n/a	=	1.5	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Diazinon	n/a	DNQ	0.0077	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Fensulfotion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/23/2012	Glyphosate	n/a	DNQ	4.8	µg/L	EPA 547	1.8	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	Malathion	n/a	=	7.2	µg/L	EPA 525.2	0.15	0.2	WKL	D
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Ronnel (Fenclorophos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2011/12-2	Wet	1/21/2012 12:10:00 PM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/18/2012 6:30:00 AM	E. Coli	n/a	=	41	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/18/2012 12:20:00 PM	Enterococcus	n/a	=	53	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/21/2012 11:12:00 AM	Fecal Coliform	n/a	=	23	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/18/2012 6:30:00 AM	Total Coliform	n/a	=	27550	MPN/100 mL	MMO-MUG	100	100	VCHCA	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/17/2012 8:30:00 AM	Conductivity	n/a	=	1223	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/17/2012 8:30:00 AM	DO	n/a	=	69.7	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/17/2012 8:30:00 AM	DO	n/a	=	6.83	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/17/2012 8:30:00 AM	pH	n/a	=	7.9	pH Units	Field Meter	-88	0.01	Field Crew	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/17/2012 8:30:00 AM	Salinity	n/a	=	800	mg/L	Field Meter	-88	100	Field Crew	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/17/2012 8:30:00 AM	Specific Conductance	n/a	=	1484	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/17/2012 8:30:00 AM	Temperature	n/a	=	15.7	°C	Field Meter	-88	0.1	Field Crew	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/20/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/19/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-CC	2011/12-3	Wet	3/17/2012 8:30:00 AM	3/19/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/21/2012	Chloride	n/a	=	54	mg/L	EPA 300.0	0.1	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/21/2012	Fluoride	n/a	=	0.3	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/26/2012	Calcium	Total	=	51	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/26/2012	Magnesium	Total	=	26	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	83	mg/L	SM 2320 B	0.56	2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/24/2012	BOD	n/a	=	11	mg/L	SM 5210 B	0.1	2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	COD	n/a	=	82	mg/L	EPA 410.4	0.73	5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/26/2012	Hardness as CaCO3	Total	=	240	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/19/2012	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.34	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/29/2012	Phenolics	n/a	=	0.07	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/20/2012	Specific Conductance	n/a	=	540	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/19/2012	Total Chlorine Residual	n/a	DNQ	0.032	mg/L	SM 4500-Cl G	0.015	0.5	WKL	BV, D, GB
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	290	mg/L	SM 2540 C	4	10	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/22/2012	Total Organic Carbon	n/a	=	8.6	mg/L	SM 5310 C	0.036	1.2	WKL	D
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/21/2012	Total Suspended Solids	n/a	=	1200	mg/L	SM 2540 D	5	5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/19/2012	Turbidity	n/a	=	540	NTU	EPA 180.1	0.024	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/21/2012	Volatile Suspended Solids	n/a	=	290	mg/L	EPA 160.4	3.1	5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Aluminum	Dissolved	=	12	µg/L	EPA 200.8	0.61	5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Aluminum	Total	=	13000	µg/L	EPA 200.8	3	25	WKL	D
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Antimony	Dissolved	=	0.57	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Antimony	Total	=	0.63	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Arsenic	Dissolved	=	2.4	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Arsenic	Total	=	6.6	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Barium	Total	=	180	µg/L	EPA 200.8	0.03	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Beryllium	Total	=	0.7	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Cadmium	Dissolved	=	0.19	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Cadmium	Total	=	1.9	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Chromium	Dissolved	=	0.28	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Chromium	Total	=	38	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/20/2012	Chromium VI	n/a	DNQ	0.12	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Copper	Dissolved	=	3.6	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Copper	Total	=	41	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/26/2012	Iron	Dissolved	=	44	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/26/2012	Iron	Total	=	21000	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Lead	Dissolved	DNQ	0.066	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Lead	Total	=	15	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/22/2012	Mercury	Dissolved	DNQ	30	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/22/2012	Mercury	Total	=	74	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Nickel	Dissolved	=	3.7	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Nickel	Total	=	44	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Selenium	Dissolved	=	1.3	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Selenium	Total	=	1.6	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Silver	Total	=	0.25	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Thallium	Total	=	0.27	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Zinc	Dissolved	=	6.6	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/4/2012	Zinc	Total	=	130	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/27/2012	Ammonia as N	n/a	=	0.34	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/19/2012	Nitrate + Nitrite as N	n/a	=	2.3	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/19/2012	Nitrate as N	n/a	=	2.3	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.62	mg/L	EPA 365.1	0.07	0.5	WKL	D



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/30/2012	Phosphorus as P	Total	=	2.8	mg/L	EPA 365.1	0.028	0.2	WKL	D
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	TKN	n/a	=	0.67	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	DNQ	0.31	µg/L	EPA 525.2	0.1	5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Diethyl phthalate	n/a	=	6.8	µg/L	EPA 625	0.15	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Dimethyl phthalate	n/a	DNQ	0.71	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/5/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/9/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Chloroprotham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Chlorpyrifos	n/a	=	0.025	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	DCPA (Dacthal)	n/a	=	0.5	µg/L	EPA 515.3	0.07	0.1	WKL	GB

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Dimethoate	n/a	=	0.029	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Fensulfthion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/19/2012	Glyphosate	n/a	=	7.6	µg/L	EPA 547	1.8	5	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Malathion	n/a	=	0.039	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Methyl parathion	n/a	=	0.027	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	GB
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/23/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2011/12-3	Wet	3/18/2012 8:45:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/7/2012	Chloride	n/a	=	190	mg/L	EPA 300.0	1	5	WKL	D
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/7/2012	Fluoride	n/a	=	0.56	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/1/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/25/2012 9:15:00 AM	E. Coli	n/a	=	20	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/25/2012 3:04:00 PM	Enterococcus	n/a	=	84	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/28/2012 12:30:00 PM	Fecal Coliform	n/a	=	80	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/25/2012 9:15:00 AM	Total Coliform	n/a	=	13200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/4/2012	Calcium	Total	=	86	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/4/2012	Magnesium	Total	=	45	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/30/2012	Alkalinity as CaCO3	n/a	=	240	mg/L	SM 2320 B	0.56	10	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/30/2012	BOD	n/a	DNQ	1.7	mg/L	SM 5210 B	0.1	2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/1/2012	COD	n/a	=	14	mg/L	EPA 410.4	0.73	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/24/2012 11:45:00 AM	Conductivity	n/a	=	1613	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/7/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/24/2012 11:45:00 AM	DO	n/a	=	9.27	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/24/2012 11:45:00 AM	DO	n/a	=	115.8	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/4/2012	Hardness as CaCO3	Total	=	400	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/25/2012	MBAS	n/a	DNQ	0.036	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/24/2012 11:45:00 AM	pH	n/a	=	8.24	pH Units	Field Meter	-88	0.01	Field Crew	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Phenolics	n/a	=	0.044	mg/L	EPA 420.4	0.0042	0.01	WKL	GB
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/24/2012 11:45:00 AM	Salinity	n/a	=	800	mg/L	Field Meter	-88	100	Field Crew	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/24/2012 11:45:00 AM	Specific Conductance	n/a	=	1573	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/31/2012	Specific Conductance	n/a	=	1600	µmhos/cm	SM 2510 B	0.47	4	WKL	D
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/24/2012 11:45:00 AM	Temperature	n/a	=	26.3	°C	Field Meter	-88	0.1	Field Crew	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/25/2012	Total Chlorine Residual	n/a	DNQ	0.049	mg/L	SM 4500-Cl G	0.0015	0.05	WKL	BV
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/30/2012	Total Dissolved Solids	n/a	=	740	mg/L	SM 2540 C	4	10	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/4/2012	Total Organic Carbon	n/a	=	5.1	mg/L	SM 5310 C	0.036	1.2	WKL	D
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/30/2012	Total Suspended Solids	n/a	=	28	mg/L	SM 2540 D	5	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/25/2012	Turbidity	n/a	=	15	NTU	EPA 180.1	0.024	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/30/2012	Volatile Suspended Solids	n/a	=	8	mg/L	EPA 160.4	3.1	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/4/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/4/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Aluminum	Dissolved	DNQ	2.4	µg/L	EPA 200.8	0.61	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Aluminum	Total	=	420	µg/L	EPA 200.8	0.61	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Antimony	Dissolved	DNQ	0.39	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Antimony	Total	DNQ	0.38	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Arsenic	Dissolved	=	3.6	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Arsenic	Total	=	3.7	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Barium	Total	=	34	µg/L	EPA 200.8	0.03	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Cadmium	Dissolved	=	0.19	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Cadmium	Total	=	0.22	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Chromium	Dissolved	=	0.32	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Chromium	Total	=	1.9	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Chromium VI	n/a	DNQ	0.088	µg/L	EPA 218.6	0.0059	0.3	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Copper	Dissolved	=	3.4	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Copper	Total	=	4.4	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/4/2012	Iron	Dissolved	DNQ	2.1	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/4/2012	Iron	Total	=	620	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Lead	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Lead	Total	=	0.36	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Mercury	Dissolved	DNQ	17	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Mercury	Total	DNQ	16	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Nickel	Dissolved	=	7.4	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Nickel	Total	=	8.4	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Selenium	Dissolved	=	1.3	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Selenium	Total	=	1.4	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Thallium	Total	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Zinc	Dissolved	=	17	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/6/2012	Zinc	Total	=	21	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Ammonia as N	n/a	=	0.16	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/25/2012	Nitrate + Nitrite as N	n/a	=	7.8	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/25/2012	Nitrate as N	n/a	=	7.6	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/11/2012	Phosphorus as P	Dissolved	=	3	mg/L	EPA 365.1	0.07	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/11/2012	Phosphorus as P	Total	=	3	mg/L	EPA 365.1	0.07	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	TKN	n/a	=	0.25	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Benzo(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Benzenidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Diethyl phthalate	n/a	=	2.8	µg/L	EPA 625	0.15	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	GB, IL
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	DCPA (Daacthal)	n/a	=	1.7	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	5/29/2012	Heptachlor	n/a	DNQ	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/5/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Prometryn	n/a	=	0.21	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Ronnel (Fenclorophos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/8/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2011/12-4	Dry	5/24/2012 11:45:00 AM	6/2/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2011/12-1	Wet	10/5/2011 12:10:00 PM	10/6/2011 9:35:00 AM	E. Coli	n/a	=	2014	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-SCR	2011/12-1	Wet	10/5/2011 12:10:00 PM	10/6/2011 2:45:00 PM	Enterococcus	n/a	=	420	MPN/100 mL	Enterolert	100	100	VCHCA	D
ME-SCR	2011/12-1	Wet	10/5/2011 12:10:00 PM	10/7/2011 12:07:00 PM	Fecal Coliform	n/a	=	2400	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2011/12-1	Wet	10/5/2011 12:10:00 PM	10/6/2011 9:35:00 AM	Total Coliform	n/a	=	6630	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/5/2011 1:00:00 PM	Conductivity	n/a	=	829	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/17/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/5/2011 1:00:00 PM	DO	n/a	=	6.4	mg/L	Field Meter	-88	0.3	Field Crew	
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/5/2011 1:00:00 PM	DO	n/a	=	65	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/5/2011 1:00:00 PM	pH	n/a	=	7.5	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/5/2011 1:00:00 PM	Salinity	n/a	=	500	mg/L	Field Meter	-88	100	Field Crew	
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/5/2011 1:00:00 PM	Specific Conductance	n/a	=	984	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/5/2011 1:00:00 PM	Temperature	n/a	=	16.6	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/6/2011	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-SCR	2011/12-1	Wet	10/5/2011 1:00:00 PM	10/6/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/12/2011	Chloride	n/a	=	53	mg/L	EPA 300.0	0.2	1	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/12/2011	Fluoride	n/a	=	0.5	mg/L	EPA 300.0	0.04	0.2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/13/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/18/2011	Calcium	Total	=	120	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/18/2011	Magnesium	Total	=	50	mg/L	EPA 200.7	0.012	0.1	WKL	



Appendix G  
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Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/17/2011	Alkalinity as CaCO3	n/a	=	170	mg/L	SM 2320 B	0.56	2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/14/2011	BOD	n/a	=	2.4	mg/L	SM 5210 B	0.1	2	WKL	J
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/17/2011	COD	n/a	=	20	mg/L	EPA 410.4	0.73	5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/18/2011	Hardness as CaCO3	Total	=	520	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/7/2011	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/18/2011	Specific Conductance	n/a	=	930	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/12/2011	Total Dissolved Solids	n/a	=	750	mg/L	SM 2540 C	4	10	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/26/2011	Total Organic Carbon	n/a	=	4.1	mg/L	SM 5310 C	0.018	0.6	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/12/2011	Total Suspended Solids	n/a	=	630	mg/L	SM 2540 D	5	5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/7/2011	Turbidity	n/a	=	300	NTU	EPA 180.1	0.024	0.1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/12/2011	Volatile Suspended Solids	n/a	=	39	mg/L	EPA 160.4	3.1	5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Aluminum	Dissolved	=	170	µg/L	EPA 200.8	0.61	5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Aluminum	Total	=	10000	µg/L	EPA 200.8	61	500	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Antimony	Dissolved	DNQ	0.25	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Antimony	Total	DNQ	0.38	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Arsenic	Total	=	5.3	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Barium	Total	=	110	µg/L	EPA 200.8	0.03	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Beryllium	Total	=	0.49	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Cadmium	Dissolved	=	0.13	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Cadmium	Total	=	0.65	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Chromium	Dissolved	=	0.33	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Chromium	Total	=	17	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/10/2011	Chromium VI	n/a	DNQ	0.11	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Copper	Dissolved	=	2.8	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Copper	Total	=	22	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Iron	Dissolved	DNQ	3.1	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Iron	Total	=	22000	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Lead	Dissolved	=	0.49	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Lead	Total	=	8.9	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Mercury	Dissolved	DNQ	34	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Mercury	Total	=	58	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Nickel	Dissolved	=	3.2	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Nickel	Total	=	23	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Selenium	Dissolved	=	2.5	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Selenium	Total	=	2.6	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Silver	Total	DNQ	0.078	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Thallium	Dissolved	DNQ	0.012	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Thallium	Total	=	0.25	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Zinc	Dissolved	DNQ	4.2	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Zinc	Total	=	61	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/18/2011	Ammonia as N	n/a	=	0.14	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/20/2011	Nitrate + Nitrite as N	n/a	=	1.4	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Phosphorus as P	Dissolved	=	0.027	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/14/2011	Phosphorus as P	Total	=	0.85	mg/L	EPA 365.1	0.035	0.25	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/20/2011	TKN	n/a	=	1	mg/L	EPA 351.2	0.074	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	EUM
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Benzo(a)pyrene	n/a	<	0.14	µg/L	EPA 525.2	0.14	0.2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.21	µg/L	EPA 525.2	0.21	10	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Bis(2-ethylhexyl)phthalate	n/a	<	2.1	µg/L	EPA 525.2	2.1	6	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/25/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Alachlor	n/a	<	0.044	µg/L	EPA 525.2	0.044	0.2	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Atrazine	n/a	<	0.068	µg/L	EPA 525.2	0.068	0.2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Bromacil	n/a	<	0.076	µg/L	EPA 525.2	0.076	2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Butachlor	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.4	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Captan	n/a	<	1.7	µg/L	EPA 525.2	1.7	2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Chlorpropham	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Cyanazine	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	EUM
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Diphenamid	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	EPTC	n/a	<	0.034	µg/L	EPA 525.2	0.034	2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/17/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Malathion	n/a	=	0.014	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Methyl parathion	n/a	=	0.017	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Metolachlor	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Metribuzin	n/a	<	0.03	µg/L	EPA 525.2	0.03	0.2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Molinate	n/a	<	0.078	µg/L	EPA 525.2	0.078	0.2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/19/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Prometon	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.4	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Prometryn	n/a	<	0.072	µg/L	EPA 525.2	0.072	0.2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Simazine	n/a	<	0.03	µg/L	EPA 525.2	0.03	0.2	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Terbacil	n/a	<	1.1	µg/L	EPA 525.2	1.1	4	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Thiobencarb	n/a	<	0.05	µg/L	EPA 525.2	0.05	0.4	WKL	D
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/21/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2011/12-1	Wet	10/6/2011 11:00:00 AM	10/27/2011	Trithion	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	D
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	171	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/22/2012 9:01:00 AM	Enterococcus	n/a	=	20	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/25/2012 9:04:00 AM	Fecal Coliform	n/a	=	140	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	5794	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/21/2012 5:30:00 AM	Conductivity	n/a	=	1116	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/21/2012 5:30:00 AM	DO	n/a	=	69.1	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/21/2012 5:30:00 AM	DO	n/a	=	7.19	mg/L	Field Meter	-88	0.3	Field Crew	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/21/2012 5:30:00 AM	pH	n/a	=	8.2	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/21/2012 5:30:00 AM	Salinity	n/a	=	700	mg/L	Field Meter	-88	100	Field Crew	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/21/2012 5:30:00 AM	Specific Conductance	n/a	=	1431	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/21/2012 5:30:00 AM	Temperature	n/a	=	13.4	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/23/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/23/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 5:30:00 AM	1/23/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/25/2012	Chloride	n/a	=	57	mg/L	EPA 300.0	0.1	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/25/2012	Fluoride	n/a	=	0.62	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/26/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/23/2012	Calcium	Total	=	130	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/23/2012	Magnesium	Total	=	49	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Alkalinity as CaCO3	n/a	=	210	mg/L	SM 2320 B	0.56	10	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/27/2012	BOD	n/a	=	2.3	mg/L	SM 5210 B	0.1	2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/26/2012	COD	n/a	=	21	mg/L	EPA 410.4	0.73	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/23/2012	Hardness as CaCO3	Total	=	530	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/22/2012	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Phenolics	n/a	=	0.017	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/24/2012	Specific Conductance	n/a	=	1100	µmhos/cm	SM 2510 B	0.23	2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/25/2012	Total Dissolved Solids	n/a	=	710	mg/L	SM 2540 C	4	10	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/26/2012	Total Organic Carbon	n/a	=	3.4	mg/L	SM 5310 C	0.018	0.6	WKL	D
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/24/2012	Total Suspended Solids	n/a	=	340	mg/L	SM 2540 D	5	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/22/2012	Turbidity	n/a	=	93	NTU	EPA 180.1	0.024	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/24/2012	Volatile Suspended Solids	n/a	=	36	mg/L	EPA 160.4	3.1	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Aluminum	Dissolved	=	5.1	µg/L	EPA 200.8	0.61	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Aluminum	Total	=	5500	µg/L	EPA 200.8	0.61	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Antimony	Dissolved	DNQ	0.27	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Antimony	Total	DNQ	0.3	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Arsenic	Dissolved	=	0.72	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Arsenic	Total	=	2.9	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Barium	Total	=	84	µg/L	EPA 200.8	0.03	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Beryllium	Total	=	0.38	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Cadmium	Total	=	0.42	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Chromium	Dissolved	DNQ	0.13	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Chromium	Total	=	9.4	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/23/2012	Chromium VI	n/a	DNQ	0.066	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Copper	Dissolved	=	3.1	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Copper	Total	=	12	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/23/2012	Iron	Dissolved	DNQ	7.5	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/23/2012	Iron	Total	=	12000	µg/L	EPA 200.7	1.1	10	WKL	GB
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Lead	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Lead	Total	=	4.6	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/24/2012	Mercury	Dissolved	DNQ	12	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/24/2012	Mercury	Total	DNQ	22	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Nickel	Dissolved	=	1.3	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Nickel	Total	=	12	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Selenium	Dissolved	=	3.4	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Selenium	Total	=	3.6	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Thallium	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Thallium	Total	DNQ	0.13	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Zinc	Dissolved	DNQ	2.2	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/28/2012	Zinc	Total	=	38	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/27/2012	Ammonia as N	n/a	=	0.22	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/22/2012	Nitrate + Nitrite as N	n/a	=	1.7	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Phosphorus as P	Dissolved	=	0.061	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Phosphorus as P	Total	=	0.52	mg/L	EPA 365.1	0.0056	0.04	WKL	D
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/27/2012	TKN	n/a	=	0.29	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Benzo(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Benzenzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Diethyl phthalate	n/a	DNQ	0.91	µg/L	EPA 625	0.15	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	H, PJM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	DCPA (Daacthal)	n/a	=	0.55	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Diazinon	n/a	DNQ	0.0058	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Fensulfthion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/23/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Malathion	n/a	DNQ	0.008	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2011/12-2	Wet	1/21/2012 2:00:00 PM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/18/2012 6:30:00 AM	E. Coli	n/a	=	292	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/18/2012 12:20:00 PM	Enterococcus	n/a	=	504	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/21/2012 11:25:00 AM	Fecal Coliform	n/a	=	300	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/18/2012 6:30:00 AM	Total Coliform	n/a	=	12033	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/17/2012 9:30:00 AM	Conductivity	n/a	=	1364	µmhos/cm	Field Meter	-88	1	Field Crew	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/17/2012 9:30:00 AM	DO	n/a	=	7.69	mg/L	Field Meter	-88	0.3	Field Crew	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/17/2012 9:30:00 AM	DO	n/a	=	75.3	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/17/2012 9:30:00 AM	pH	n/a	=	8.1	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/17/2012 9:30:00 AM	Salinity	n/a	=	900	mg/L	Field Meter	-88	100	Field Crew	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/17/2012 9:30:00 AM	Specific Conductance	n/a	=	1749	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/17/2012 9:30:00 AM	Temperature	n/a	=	13.8	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/20/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/19/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-SCR	2011/12-3	Wet	3/17/2012 9:30:00 AM	3/19/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/21/2012	Chloride	n/a	=	59	mg/L	EPA 300.0	0.1	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/21/2012	Fluoride	n/a	=	0.63	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/26/2012	Calcium	Total	=	350	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/26/2012	Magnesium	Total	=	120	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	600	mg/L	SM 2320 B	0.56	2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/24/2012	BOD	n/a	=	14	mg/L	SM 5210 B	0.1	2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	COD	n/a	=	610	mg/L	EPA 410.4	0.73	5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/26/2012	Hardness as CaCO3	Total	=	1400	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/19/2012	MBAS	n/a	<	0.19	mg/L	SM 5540 C	0.19	0.5	WKL	D
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.78	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/29/2012	Phenolics	n/a	=	0.1	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/20/2012	Specific Conductance	n/a	=	1600	µmhos/cm	SM 2510 B	0.47	4	WKL	D
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	670	mg/L	SM 2540 C	4	10	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/22/2012	Total Organic Carbon	n/a	=	4.8	mg/L	SM 5310 C	0.018	0.6	WKL	D
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/21/2012	Total Suspended Solids	n/a	=	850	mg/L	SM 2540 D	5	5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/19/2012	Turbidity	n/a	=	9.2	NTU	EPA 180.1	0.024	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/21/2012	Volatile Suspended Solids	n/a	=	480	mg/L	EPA 160.4	3.1	5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Aluminum	Dissolved	DNQ	2.2	µg/L	EPA 200.8	0.61	5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Aluminum	Total	=	75000	µg/L	EPA 200.8	6.1	50	WKL	D
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Antimony	Dissolved	DNQ	0.36	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Antimony	Total	DNQ	0.23	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Arsenic	Dissolved	=	0.53	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Arsenic	Total	=	20	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Barium	Total	=	1100	µg/L	EPA 200.8	0.03	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Beryllium	Total	=	3.9	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Cadmium	Dissolved	DNQ	0.082	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Cadmium	Total	=	9.9	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Chromium	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Chromium	Total	=	160	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/20/2012	Chromium VI	n/a	DNQ	0.047	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Copper	Dissolved	=	1.9	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Copper	Total	=	190	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/26/2012	Iron	Dissolved	DNQ	2.3	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/26/2012	Iron	Total	=	170000	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Lead	Dissolved	DNQ	0.017	µg/L	EPA 200.8	0.011	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Lead	Total	=	59	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/22/2012	Mercury	Dissolved	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/22/2012	Mercury	Total	=	400	ng/L	EPA 245.1	7.8	100	WKL	D
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Nickel	Dissolved	=	5.6	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Nickel	Total	=	290	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Selenium	Dissolved	=	5.4	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Selenium	Total	=	3.3	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Silver	Total	=	1.4	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Thallium	Dissolved	DNQ	0.015	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Thallium	Total	=	1.8	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Zinc	Dissolved	DNQ	1.9	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/4/2012	Zinc	Total	=	510	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/27/2012	Ammonia as N	n/a	=	0.9	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	1.8	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.01	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/30/2012	Phosphorus as P	Total	=	13	mg/L	EPA 365.1	0.14	1	WKL	D
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/29/2012	TKN	n/a	=	15	mg/L	EPA 351.2	0.37	0.5	WKL	D
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Benzydine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Benzo(a)pyrene	n/a	=	0.18	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Butyl benzyl phthalate	n/a	DNQ	0.73	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Diethyl phthalate	n/a	DNQ	0.66	µg/L	EPA 625	0.15	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Di-n-butylphthalate	n/a	DNQ	0.44	µg/L	EPA 625	0.24	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/5/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/9/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Coumatophos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	DCPA (Dacthal)	n/a	=	0.14	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Dimethoate	n/a	=	0.019	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Fensulfthion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/19/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Malathion	n/a	=	0.011	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Methyl parathion	n/a	=	0.028	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/23/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2011/12-3	Wet	3/18/2012 9:53:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/1/2012	Chloride	n/a	=	67	mg/L	EPA 300.0	0.1	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/1/2012	Fluoride	n/a	=	0.78	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/25/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/23/2012 9:00:00 AM	E. Coli	n/a	=	31	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/23/2012 3:05:00 PM	Enterococcus	n/a	=	20	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/26/2012 12:40:00 PM	Fecal Coliform	n/a	=	50	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/23/2012 9:00:00 AM	Total Coliform	n/a	=	4611	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/1/2012	Calcium	Total	=	140	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/1/2012	Magnesium	Total	=	55	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Alkalinity as CaCO3	n/a	=	240	mg/L	SM 2320 B	0.56	10	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	BOD	n/a	DNQ	1.4	mg/L	SM 5210 B	0.1	2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/24/2012	COD	n/a	DNQ	1.4	mg/L	EPA 410.4	0.73	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/22/2012 9:35:00 AM	Conductivity	n/a	=	1314	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/7/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/22/2012 9:35:00 AM	DO	n/a	=	10.12	mg/L	Field Meter	-88	0.3	Field Crew	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/22/2012 9:35:00 AM	DO	n/a	=	111.2	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/1/2012	Hardness as CaCO3	Total	=	570	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/23/2012	MBAS	n/a	DNQ	0.028	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/22/2012 9:35:00 AM	pH	n/a	=	8.19	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	Phenolics	n/a	=	0.12	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/22/2012 9:35:00 AM	Salinity	n/a	=	800	mg/L	Field Meter	-88	100	Field Crew	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/25/2012	Specific Conductance	n/a	=	1600	µmhos/cm	SM 2510 B	0.47	4	WKL	D
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/22/2012 9:35:00 AM	Specific Conductance	n/a	=	1550	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/22/2012 9:35:00 AM	Temperature	n/a	=	17.2	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/25/2012	Total Dissolved Solids	n/a	=	800	mg/L	SM 2540 C	4	10	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/1/2012	Total Organic Carbon	n/a	=	2	mg/L	SM 5310 C	0.009	0.3	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/24/2012	Total Suspended Solids	n/a	=	8	mg/L	SM 2540 D	5	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/23/2012	Turbidity	n/a	=	2.9	NTU	EPA 180.1	0.024	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/24/2012	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Aluminum	Dissolved	DNQ	1.5	µg/L	EPA 200.8	0.61	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Aluminum	Total	=	48	µg/L	EPA 200.8	0.61	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Antimony	Dissolved	DNQ	0.27	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Antimony	Total	DNQ	0.25	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Arsenic	Dissolved	=	0.92	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Arsenic	Total	=	0.88	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Barium	Total	=	42	µg/L	EPA 200.8	0.03	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Cadmium	Dissolved	DNQ	0.023	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Cadmium	Total	DNQ	0.047	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Chromium	Dissolved	DNQ	0.077	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Chromium	Total	DNQ	0.17	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/1/2012	Chromium VI	n/a	DNQ	0.033	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Copper	Dissolved	=	0.59	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Copper	Total	=	0.87	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/1/2012	Iron	Dissolved	DNQ	1.7	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/1/2012	Iron	Total	=	88	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Lead	Dissolved	DNQ	0.014	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Lead	Total	DNQ	0.075	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Mercury	Dissolved	DNQ	15	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Mercury	Total	DNQ	14	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Nickel	Dissolved	=	1.1	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Nickel	Total	=	1.3	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Selenium	Dissolved	=	4.1	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Selenium	Total	=	4.4	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Thallium	Total	DNQ	0.0096	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Zinc	Dissolved	DNQ	1.5	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Zinc	Total	DNQ	1.4	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/5/2012	Ammonia as N	n/a	DNQ	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/23/2012	Nitrate + Nitrite as N	n/a	=	1.3	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Phosphorus as P	Dissolved	=	0.011	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Phosphorus as P	Total	=	0.022	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/7/2012	TKN	n/a	=	0.18	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/24/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Benzdine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Diethyl phthalate	n/a	DNQ	0.31	µg/L	EPA 625	0.15	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/24/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/31/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Fensulfotion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/29/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/4/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	5/30/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/6/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2011/12-4	Dry	5/22/2012 9:35:00 AM	6/2/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/6/2011 8:50:00 AM	E. Coli	n/a	=	2755	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/6/2011 7:30:00 AM	Enterococcus	n/a	=	271	MPN/100 mL	Enterolert	10	10	VCHCA	D
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/8/2011 12:00:00 PM	Fecal Coliform	n/a	=	2400	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/6/2011 8:50:00 AM	Total Coliform	n/a	=	26130	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/5/2011 10:05:00 AM	Conductivity	n/a	=	957	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/17/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/5/2011 10:05:00 AM	DO	n/a	=	5.82	mg/L	Field Meter	-88	0.3	Field Crew	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/5/2011 10:05:00 AM	DO	n/a	=	60.3	%	Field Meter	-88	0.1	Field Crew	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/5/2011 10:05:00 AM	pH	n/a	=	7.25	pH Units	Field Meter	-88	0.01	Field Crew	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/5/2011 10:05:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/5/2011 10:05:00 AM	Specific Conductance	n/a	=	1164	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/5/2011 10:05:00 AM	Temperature	n/a	=	16.5	°C	Field Meter	-88	0.1	Field Crew	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/6/2011	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-VR2	2011/12-1	Wet	10/5/2011 10:05:00 AM	10/6/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Chloride	n/a	=	64	mg/L	EPA 300.0	0.2	1	WKL	D
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Fluoride	n/a	=	0.43	mg/L	EPA 300.0	0.04	0.2	WKL	D
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/11/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/11/2011	Calcium	Total	=	120	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/11/2011	Magnesium	Total	=	36	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/17/2011	Alkalinity as CaCO3	n/a	=	220	mg/L	SM 2320 B	0.56	2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	BOD	n/a	=	2	mg/L	SM 5210 B	0.1	2	WKL	J
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/10/2011	COD	n/a	=	19	mg/L	EPA 410.4	0.73	5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/11/2011	Hardness as CaCO3	Total	=	440	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/7/2011	MBAS	n/a	DNQ	0.036	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/17/2011	Phenolics	n/a	=	0.06	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	Specific Conductance	n/a	=	940	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Total Dissolved Solids	n/a	=	740	mg/L	SM 2540 C	4	10	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/26/2011	Total Organic Carbon	n/a	=	5.5	mg/L	SM 5310 C	0.018	0.6	WKL	D
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Total Suspended Solids	n/a	=	14	mg/L	SM 2540 D	5	5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/7/2011	Turbidity	n/a	=	12	NTU	EPA 180.1	0.024	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Aluminum	Dissolved	DNQ	2.6	µg/L	EPA 200.8	0.61	5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Aluminum	Total	=	210	µg/L	EPA 200.8	6.1	50	WKL	D
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Antimony	Dissolved	DNQ	0.16	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Antimony	Total	DNQ	0.17	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Arsenic	Dissolved	=	1.3	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Arsenic	Total	=	1.7	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Cadmium	Dissolved	DNQ	0.073	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Cadmium	Total	=	0.13	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Chromium	Dissolved	<	0.074	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Chromium	Total	=	0.66	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/10/2011	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Copper	Dissolved	=	1.4	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Copper	Total	=	1.8	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/11/2011	Iron	Dissolved	=	120	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/11/2011	Iron	Total	=	910	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Lead	Dissolved	DNQ	0.025	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Lead	Total	=	0.26	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/10/2011	Mercury	Dissolved	DNQ	25	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/10/2011	Mercury	Total	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Nickel	Dissolved	=	4.1	µg/L	EPA 200.8	0.13	0.8	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Nickel	Total	=	5.2	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Selenium	Dissolved	=	1.2	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Selenium	Total	=	1.2	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Thallium	Total	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Zinc	Dissolved	DNQ	2.2	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/12/2011	Zinc	Total	DNQ	3.5	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	Ammonia as N	n/a	DNQ	0.08	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/20/2011	Nitrate + Nitrite as N	n/a	=	0.41	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Phosphorus as P	Dissolved	=	0.056	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Phosphorus as P	Total	=	0.15	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/17/2011	TKN	n/a	=	0.57	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/25/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Benzenzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Diethyl phthalate	n/a	DNQ	0.69	µg/L	EPA 625	0.15	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/29/2011	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/24/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/17/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Methyl parathion	n/a	=	0.01	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/18/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/14/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/19/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2011/12-1	Wet	10/6/2011 10:05:00 AM	10/21/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	52	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/22/2012 9:01:00 AM	Enterococcus	n/a	=	207	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/25/2012 9:05:00 AM	Fecal Coliform	n/a	=	500	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	120330	MPN/100 mL	MMO-MUG	100	100	VCHCA	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/21/2012 6:00:00 AM	Conductivity	n/a	=	952	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/21/2012 6:00:00 AM	DO	n/a	=	4.95	mg/L	Field Meter	-88	0.3	Field Crew	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/21/2012 6:00:00 AM	DO	n/a	=	44.1	%	Field Meter	-88	0.1	Field Crew	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/21/2012 6:00:00 AM	pH	n/a	=	7.14	pH Units	Field Meter	-88	0.01	Field Crew	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/21/2012 6:00:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/21/2012 6:00:00 AM	Specific Conductance	n/a	=	1272	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/21/2012 6:00:00 AM	Temperature	n/a	=	11.3	°C	Field Meter	-88	0.1	Field Crew	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/23/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/23/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 6:00:00 AM	1/23/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/26/2012	Chloride	n/a	=	110	mg/L	EPA 300.0	1	5	WKL	D
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/25/2012	Fluoride	n/a	=	0.45	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/26/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/23/2012	Calcium	Total	=	120	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/23/2012	Magnesium	Total	=	38	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Alkalinity as CaCO3	n/a	=	300	mg/L	SM 2320 B	0.56	10	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/27/2012	BOD	n/a	=	2.9	mg/L	SM 5210 B	0.1	2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/26/2012	COD	n/a	=	16	mg/L	EPA 410.4	0.73	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/23/2012	Hardness as CaCO3	Total	=	450	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/22/2012	MBAS	n/a	=	0.05	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Phenolics	n/a	=	0.079	mg/L	EPA 420.4	0.0042	0.01	WKL	GB
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/24/2012	Specific Conductance	n/a	=	1100	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/25/2012	Total Dissolved Solids	n/a	=	790	mg/L	SM 2540 C	4	10	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/26/2012	Total Organic Carbon	n/a	=	5.3	mg/L	SM 5310 C	0.036	1.2	WKL	D
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/24/2012	Total Suspended Solids	n/a	=	9	mg/L	SM 2540 D	5	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/22/2012	Turbidity	n/a	=	10	NTU	EPA 180.1	0.024	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/24/2012	Volatile Suspended Solids	n/a	DNQ	4	mg/L	EPA 160.4	3.1	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Aluminum	Dissolved	DNQ	2.2	µg/L	EPA 200.8	0.61	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Aluminum	Total	=	67	µg/L	EPA 200.8	0.61	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Antimony	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Antimony	Total	DNQ	0.11	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Arsenic	Total	=	1.6	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Cadmium	Total	DNQ	0.06	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Chromium	Dissolved	<	0.074	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Chromium	Total	=	0.22	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/23/2012	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Copper	Dissolved	=	1.5	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Copper	Total	=	1.3	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/23/2012	Iron	Dissolved	=	65	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/23/2012	Iron	Total	=	1500	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Lead	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Lead	Total	DNQ	0.14	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/24/2012	Mercury	Dissolved	DNQ	6	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/24/2012	Mercury	Total	DNQ	9	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Nickel	Dissolved	=	4.7	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Nickel	Total	=	5	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Selenium	Dissolved	=	0.45	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Selenium	Total	=	0.52	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Thallium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Thallium	Total	DNQ	0.02	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Zinc	Dissolved	DNQ	2.7	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/28/2012	Zinc	Total	DNQ	2.7	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/27/2012	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/22/2012	Nitrate + Nitrite as N	n/a	DNQ	0.078	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Phosphorus as P	Dissolved	=	0.022	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Phosphorus as P	Total	=	0.13	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/2/2012	TKN	n/a	=	0.66	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Benzdine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Diethyl phthalate	n/a	DNQ	0.63	µg/L	EPA 625	0.15	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Fensulfthion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/23/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2011/12-2	Wet	1/21/2012 1:10:00 PM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/18/2012 7:00:00 AM	E. Coli	n/a	=	5475	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/18/2012 12:20:00 PM	Enterococcus	n/a	=	4060	MPN/100 mL	Enterolert	100	100	VCHCA	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/21/2012 11:15:00 AM	Fecal Coliform	n/a	=	5000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/18/2012 7:00:00 AM	Total Coliform	n/a	=	248900	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/17/2012 8:50:00 AM	Conductivity	n/a	=	801	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/17/2012 8:50:00 AM	DO	n/a	=	7.52	mg/L	Field Meter	-88	0.3	Field Crew	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/17/2012 8:50:00 AM	DO	n/a	=	73.1	%	Field Meter	-88	0.1	Field Crew	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/17/2012 8:50:00 AM	pH	n/a	=	8.1	pH Units	Field Meter	-88	0.01	Field Crew	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/17/2012 8:50:00 AM	Salinity	n/a	=	500	mg/L	Field Meter	-88	100	Field Crew	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/17/2012 8:50:00 AM	Specific Conductance	n/a	=	1008	µmhos/cm	Field Meter	-88	1	Field Crew	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/17/2012 8:50:00 AM	Temperature	n/a	=	14	°C	Field Meter	-88	0.1	Field Crew	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/20/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/19/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-VR2	2011/12-3	Wet	3/17/2012 8:50:00 AM	3/19/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/21/2012	Chloride	n/a	=	52	mg/L	EPA 300.0	0.1	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/21/2012	Fluoride	n/a	=	0.43	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/26/2012	Calcium	Total	=	100	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/26/2012	Magnesium	Total	=	28	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	200	mg/L	SM 2320 B	0.56	2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	BOD	n/a	=	3.2	mg/L	SM 5210 B	0.1	2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	COD	n/a	=	23	mg/L	EPA 410.4	0.73	5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/26/2012	Hardness as CaCO3	Total	=	370	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/19/2012	MBAS	n/a	DNQ	0.034	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.76	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/29/2012	Phenolics	n/a	=	0.027	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/20/2012	Specific Conductance	n/a	=	920	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	500	mg/L	SM 2540 C	4	10	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/22/2012	Total Organic Carbon	n/a	=	4.6	mg/L	SM 5310 C	0.018	0.6	WKL	D
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/21/2012	Total Suspended Solids	n/a	=	22	mg/L	SM 2540 D	5	5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/19/2012	Turbidity	n/a	=	50	NTU	EPA 180.1	0.024	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/21/2012	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Aluminum	Dissolved	=	9.6	µg/L	EPA 200.8	0.61	5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Aluminum	Total	=	260	µg/L	EPA 200.8	0.61	5	WKL	GB
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Antimony	Dissolved	DNQ	0.16	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Antimony	Total	DNQ	0.15	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Arsenic	Dissolved	=	0.7	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Arsenic	Total	=	0.91	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Cadmium	Dissolved	=	0.1	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Cadmium	Total	=	0.1	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Chromium	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Chromium	Total	=	0.65	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/20/2012	Chromium VI	n/a	DNQ	0.03	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Copper	Dissolved	=	1.8	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Copper	Total	=	2.4	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/26/2012	Iron	Dissolved	=	180	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/26/2012	Iron	Total	=	620	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Lead	Dissolved	DNQ	0.057	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Lead	Total	=	0.4	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/22/2012	Mercury	Dissolved	DNQ	29	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/22/2012	Mercury	Total	DNQ	31	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Nickel	Dissolved	=	3.6	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Nickel	Total	=	4.4	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Selenium	Dissolved	=	2.3	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Selenium	Total	=	2.1	µg/L	EPA 200.8	0.28	0.4	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Thallium	Dissolved	DNQ	0.019	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Thallium	Total	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Zinc	Dissolved	DNQ	3.1	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Zinc	Total	=	5.4	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/27/2012	Ammonia as N	n/a	DNQ	0.066	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	0.44	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.049	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/30/2012	Phosphorus as P	Total	=	0.1	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/29/2012	TKN	n/a	=	0.44	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Diethyl phthalate	n/a	DNQ	0.67	µg/L	EPA 625	0.15	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/5/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/9/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Dimethoate	n/a	=	0.023	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/19/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Methyl parathion	n/a	=	0.055	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/30/2012	Chloride	n/a	=	64	mg/L	EPA 300.0	0.1	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/30/2012	Fluoride	n/a	=	0.48	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/2/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/25/2012 8:00:00 AM	E. Coli	n/a	=	20	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/25/2012 1:40:00 PM	Enterococcus	n/a	=	10	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/27/2012 1:02:00 PM	Fecal Coliform	n/a	=	22	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/25/2012 8:00:00 AM	Total Coliform	n/a	=	8164	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/30/2012	Calcium	Total	=	110	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/30/2012	Magnesium	Total	=	34	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/7/2012	Alkalinity as CaCO3	n/a	=	260	mg/L	SM 2320 B	0.56	2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/30/2012	BOD	n/a	=	2.8	mg/L	SM 5210 B	0.1	2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/2/2012	COD	n/a	=	14	mg/L	EPA 410.4	0.73	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/24/2012 10:55:00 AM	Conductivity	n/a	=	968	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/24/2012 10:55:00 AM	DO	n/a	=	86.3	%	Field Meter	-88	0.1	Field Crew	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/24/2012 10:55:00 AM	DO	n/a	=	8.23	mg/L	Field Meter	-88	0.3	Field Crew	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/30/2012	Hardness as CaCO3	Total	=	420	mg/L	EPA 200.7	0.089	0.66	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/25/2012	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/24/2012 10:55:00 AM	pH	n/a	=	7.55	pH Units	Field Meter	-88	0.01	Field Crew	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/1/2012	Phenolics	n/a	=	0.046	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/24/2012 10:55:00 AM	Salinity	n/a	=	500	mg/L	Field Meter	-88	100	Field Crew	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/24/2012 10:55:00 AM	Specific Conductance	n/a	=	1128	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/30/2012	Specific Conductance	n/a	=	1100	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/24/2012 10:55:00 AM	Temperature	n/a	=	17.5	°C	Field Meter	-88	0.1	Field Crew	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/30/2012	Total Dissolved Solids	n/a	=	660	mg/L	SM 2540 C	4	10	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/2/2012	Total Organic Carbon	n/a	=	2.8	mg/L	SM 5310 C	0.009	0.3	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/25/2012	Total Suspended Solids	n/a	=	8	mg/L	SM 2540 D	5	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/25/2012	Turbidity	n/a	=	4	NTU	EPA 180.1	0.024	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/25/2012	Volatile Suspended Solids	n/a	=	5	mg/L	EPA 160.4	3.1	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/25/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/25/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Aluminum	Dissolved	DNQ	1.2	µg/L	EPA 200.8	0.61	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Aluminum	Total	=	43	µg/L	EPA 200.8	0.61	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Antimony	Dissolved	DNQ	0.1	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Antimony	Total	DNQ	0.09	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Arsenic	Total	=	2	µg/L	EPA 200.8	0.036	0.4	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Cadmium	Total	DNQ	0.05	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Chromium	Dissolved	<	0.074	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Chromium	Total	DNQ	0.14	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/26/2012	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Copper	Dissolved	DNQ	0.32	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Copper	Total	DNQ	0.46	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/30/2012	Iron	Dissolved	=	18	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/30/2012	Iron	Total	=	600	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Lead	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Lead	Total	DNQ	0.08	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/27/2012	Mercury	Dissolved	DNQ	15	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/27/2012	Mercury	Total	DNQ	11	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Nickel	Dissolved	=	2.7	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Nickel	Total	=	2.8	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Selenium	Dissolved	=	0.78	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Selenium	Total	=	0.78	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/4/2012	Silver	Dissolved	DNQ	0.091	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/4/2012	Silver	Total	DNQ	0.079	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Thallium	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Thallium	Total	DNQ	0.04	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Zinc	Dissolved	DNQ	2.2	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Zinc	Total	DNQ	1.8	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/2/2012	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Nitrate + Nitrite as N	n/a	DNQ	0.016	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Phosphorus as P	Dissolved	=	0.027	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Phosphorus as P	Total	=	0.048	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/4/2012	TKN	n/a	=	0.16	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/26/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	IL
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Benzdine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Butyl benzyl phthalate	n/a	DNQ	0.74	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Diethyl phthalate	n/a	DNQ	0.84	µg/L	EPA 625	0.15	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/26/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/8/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/10/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/11/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Fensulfthion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/27/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	4/29/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Ronnel (Fenclorophos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/5/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/3/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2011/12-4	Dry	4/24/2012 10:55:00 AM	5/15/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/6/2011 9:35:00 AM	E. Coli	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/9/2011 12:45:00 PM	Fecal Coliform	n/a	=	24000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/6/2011 9:35:00 AM	Total Coliform	n/a	=	285100	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/5/2011 7:45:00 AM	Conductivity	n/a	=	76.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/17/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/5/2011 7:45:00 AM	DO	n/a	=	9.1	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/5/2011 7:45:00 AM	pH	n/a	=	7.42	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/5/2011 7:45:00 AM	Specific Conductance	n/a	=	90.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/5/2011 7:45:00 AM	Temperature	n/a	=	17.1	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/6/2011	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 7:45:00 AM	10/6/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/11/2011	Chloride	n/a	=	11	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/11/2011	Fluoride	n/a	=	0.14	mg/L	EPA 300.0	0.02	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/10/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Calcium	Total	=	15	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Magnesium	Total	=	3.7	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/17/2011	Alkalinity as CaCO3	n/a	=	23	mg/L	SM 2320 B	0.56	2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	BOD	n/a	=	9.8	mg/L	SM 5210 B	0.1	2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/10/2011	COD	n/a	=	130	mg/L	EPA 410.4	0.73	5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Hardness as CaCO3	Total	=	52	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/6/2011	MBAS	n/a	=	0.13	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/17/2011	Phenolics	n/a	=	0.075	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/17/2011	Specific Conductance	n/a	=	110	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/10/2011	Total Dissolved Solids	n/a	=	77	mg/L	SM 2540 C	4	10	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/26/2011	Total Organic Carbon	n/a	=	15	mg/L	SM 5310 C	0.072	2.4	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/10/2011	Total Suspended Solids	n/a	=	140	mg/L	SM 2540 D	5	5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/6/2011	Turbidity	n/a	=	52	NTU	EPA 180.1	0.024	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/10/2011	Volatile Suspended Solids	n/a	=	36	mg/L	EPA 160.4	3.1	5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Aluminum	Dissolved	=	44	µg/L	EPA 200.8	0.61	5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Aluminum	Total	=	3400	µg/L	EPA 200.8	6.1	50	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Antimony	Dissolved	=	0.65	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Antimony	Total	=	1.9	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Arsenic	Total	=	2.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/18/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/18/2011	Beryllium	Total	=	0.17	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Cadmium	Dissolved	DNQ	0.065	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Cadmium	Total	=	0.56	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Chromium	Dissolved	=	0.71	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Chromium	Total	=	8.1	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/6/2011	Chromium VI	n/a	=	0.35	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Copper	Dissolved	=	8.8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Copper	Total	=	52	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Iron	Dissolved	=	85	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Iron	Total	=	5600	µg/L	EPA 200.7	1.1	10	WKL	GB
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Lead	Dissolved	=	0.51	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Lead	Total	=	11	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/10/2011	Mercury	Dissolved	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/10/2011	Mercury	Total	DNQ	45	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Nickel	Dissolved	=	3.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Nickel	Total	=	12	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Selenium	Total	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Silver	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Silver	Total	DNQ	0.18	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Thallium	Dissolved	DNQ	0.011	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Thallium	Total	DNQ	0.071	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Zinc	Dissolved	=	42	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Zinc	Total	=	250	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/12/2011	Ammonia as N	n/a	=	0.51	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/18/2011	Nitrate + Nitrite as N	n/a	=	1.1	mg/L	EPA 353.2	0.01	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/19/2011	Phosphorus as P	Dissolved	=	0.3	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/14/2011	Phosphorus as P	Total	=	1	mg/L	EPA 365.1	0.035	0.25	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/17/2011	TKN	n/a	=	2.9	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	1,2,4-Trichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	1,2-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	1,2-Diphenylhydrazine	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	1,3-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	1,4-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	2,4-Dinitrotoluene	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	2,6-Dinitrotoluene	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	2-Chloronaphthalene	n/a	<	0.9	µg/L	EPA 625	0.9	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	3,3'-Dichlorobenzidine	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	4-Bromophenyl phenyl ether	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	4-Chlorophenyl phenyl ether	n/a	<	0.82	µg/L	EPA 625	0.82	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Benzidine	n/a	<	7.3	µg/L	EPA 625	7.3	20	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Bis(2-chloroethoxy)methane	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Bis(2-chloroethyl)ether	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.76	µg/L	EPA 625	0.76	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Bis(2-ethylhexyl)adipate	n/a	DNQ	0.58	µg/L	EPA 525.2	0.1	5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	11/4/2011	Bis(2-ethylhexyl)phthalate	n/a	<	11	µg/L	EPA 525.2	11	30	WKL	D, H
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Butyl benzyl phthalate	n/a	DNQ	0.68	µg/L	EPA 625	0.36	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Diethyl phthalate	n/a	=	2.1	µg/L	EPA 625	0.3	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Dimethyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Di-n-butylphthalate	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Di-n-octylphthalate	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Hexachlorobenzene	n/a	<	0.98	µg/L	EPA 625	0.98	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Hexachlorobutadiene	n/a	<	0.94	µg/L	EPA 625	0.94	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Hexachlorocyclopentadiene	n/a	<	2.9	µg/L	EPA 625	2.9	10	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Hexachloroethane	n/a	<	1	µg/L	EPA 625	1	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Isophorone	n/a	<	0.42	µg/L	EPA 625	0.42	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Nitrobenzene	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	N-Nitrosodimethylamine	n/a	<	0.28	µg/L	EPA 625	0.28	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	N-Nitrosodi-N-propylamine	n/a	<	0.52	µg/L	EPA 625	0.52	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	N-Nitrosodiphenylamine	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/24/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	2,4-DB	n/a	DNQ	1.5	µg/L	EPA 515.3	0.07	2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	4,4'-DDE	n/a	DNQ	0.012	µg/L	EPA 608	0.0025	0.05	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	4,4'-DDT	n/a	DNQ	0.0057	µg/L	EPA 608	0.0031	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM, IL
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	DCPA (Dacthal)	n/a	DNQ	0.088	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Diazinon	n/a	=	0.011	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/10/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Malathion	n/a	=	0.23	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/13/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/25/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/20/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2011/12-1	Wet	10/5/2011 12:20:00 PM	10/21/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	12997	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/25/2012 8:50:00 AM	Fecal Coliform	n/a	=	16000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	141360	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	Conductivity	n/a	=	55.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	DO	n/a	=	81.8	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	DO	n/a	=	8.44	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	pH	n/a	=	7.7	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	Specific Conductance	n/a	=	72.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	Temperature	n/a	=	13.7	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/23/2012	Oil and Grease	n/a	DNQ	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/23/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/23/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/25/2012	Chloride	n/a	=	4.5	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/25/2012	Fluoride	n/a	DNQ	0.088	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/26/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/23/2012	Calcium	Total	=	8.4	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/23/2012	Magnesium	Total	=	1.8	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Alkalinity as CaCO3	n/a	=	20	mg/L	SM 2320 B	0.56	2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/27/2012	BOD	n/a	=	7.7	mg/L	SM 5210 B	0.1	2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/26/2012	COD	n/a	=	62	mg/L	EPA 410.4	0.73	5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/23/2012	Hardness as CaCO3	Total	=	28	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/22/2012	MBAS	n/a	=	0.19	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Phenolics	n/a	=	0.027	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/24/2012	Specific Conductance	n/a	=	76	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/25/2012	Total Dissolved Solids	n/a	=	52	mg/L	SM 2540 C	4	10	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/26/2012	Total Organic Carbon	n/a	=	10	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/24/2012	Total Suspended Solids	n/a	=	60	mg/L	SM 2540 D	5	5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/22/2012	Turbidity	n/a	=	8.5	NTU	EPA 180.1	0.024	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/24/2012	Volatile Suspended Solids	n/a	=	21	mg/L	EPA 160.4	3.1	5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Aluminum	Dissolved	=	25	µg/L	EPA 200.8	0.61	5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Aluminum	Total	=	820	µg/L	EPA 200.8	0.61	5	WKL	GB
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Antimony	Dissolved	DNQ	0.43	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Antimony	Total	=	0.88	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Arsenic	Dissolved	=	0.66	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Arsenic	Total	=	1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Cadmium	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Cadmium	Total	=	0.18	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Chromium	Dissolved	=	0.3	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Chromium	Total	=	2.1	µg/L	EPA 200.8	0.074	0.2	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/23/2012	Chromium VI	n/a	DNQ	0.12	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Copper	Dissolved	=	8.5	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Copper	Total	=	18	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/23/2012	Iron	Dissolved	=	49	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/23/2012	Iron	Total	=	1400	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Lead	Dissolved	DNQ	0.17	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Lead	Total	=	3.1	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/24/2012	Mercury	Dissolved	DNQ	8	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/24/2012	Mercury	Total	DNQ	13	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Nickel	Dissolved	=	1.3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Nickel	Total	=	3.5	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Selenium	Total	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Thallium	Total	DNQ	0.02	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Zinc	Dissolved	=	21	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/28/2012	Zinc	Total	=	78	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/27/2012	Ammonia as N	n/a	=	0.58	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/22/2012	Nitrate + Nitrite as N	n/a	=	0.65	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Phosphorus as P	Dissolved	=	0.24	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Phosphorus as P	Total	=	0.42	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/2/2012	TKN	n/a	=	1.8	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Benzdine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Benzo(a)pyrene	n/a	=	0.13	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Benzo(b)fluoranthene	n/a	DNQ	0.25	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	DNQ	0.2	µg/L	EPA 525.2	0.1	5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	=	3.2	µg/L	EPA 525.2	1.1	3	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Butyl benzyl phthalate	n/a	DNQ	0.44	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Chrysene	n/a	DNQ	0.22	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Diethyl phthalate	n/a	=	2.4	µg/L	EPA 625	0.15	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Di-n-butylphthalate	n/a	DNQ	0.41	µg/L	EPA 625	0.24	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Fluoranthene	n/a	DNQ	0.38	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Phenanthrene	n/a	DNQ	0.15	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Pyrene	n/a	DNQ	0.35	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2,4-D	n/a	=	1.6	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	4,4'-DDE	n/a	DNQ	0.012	µg/L	EPA 608	0.0025	0.05	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	4,4'-DDT	n/a	DNQ	0.0061	µg/L	EPA 608	0.0031	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	DCPA (Daacthal)	n/a	DNQ	0.09	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Diazinon	n/a	=	0.014	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Fensulfotion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/23/2012	Glyphosate	n/a	DNQ	2.5	µg/L	EPA 547	1.8	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Malathion	n/a	=	0.21	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2011/12-2	Wet	1/21/2012 12:30:00 PM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/18/2012 6:30:00 AM	E. Coli	n/a	=	64880	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/19/2012 11:11:00 AM	Fecal Coliform	n/a	=	90000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/18/2012 6:30:00 AM	Total Coliform	n/a	=	727000	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/17/2012 6:00:00 AM	Conductivity	n/a	=	265.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/17/2012 6:00:00 AM	DO	n/a	=	77.6	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/17/2012 6:00:00 AM	DO	n/a	=	7.74	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/17/2012 6:00:00 AM	pH	n/a	=	7.5	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/17/2012 6:00:00 AM	Salinity	n/a	=	200	mg/L	Field Meter	-88	100	Field Crew	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/17/2012 6:00:00 AM	Specific Conductance	n/a	=	340.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/17/2012 6:00:00 AM	Temperature	n/a	=	14.1	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/20/2012	Oil and Grease	n/a	=	9.9	mg/L	EPA 1664A	1.3	5	WKL	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/19/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-CAM	2011/12-3	Wet	3/17/2012 6:00:00 AM	3/19/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/21/2012	Chloride	n/a	=	9.3	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/21/2012	Fluoride	n/a	DNQ	0.091	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/26/2012	Calcium	Total	=	9.6	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/26/2012	Magnesium	Total	=	2.1	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	28	mg/L	SM 2320 B	0.56	2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/24/2012	BOD	n/a	=	12	mg/L	SM 5210 B	0.1	2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	COD	n/a	=	63	mg/L	EPA 410.4	0.73	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/26/2012	Hardness as CaCO3	Total	=	33	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/19/2012	MBAS	n/a	=	0.17	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.17	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/29/2012	Phenolics	n/a	=	0.013	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/20/2012	Specific Conductance	n/a	=	110	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	61	mg/L	SM 2540 C	4	10	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/22/2012	Total Organic Carbon	n/a	=	10	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/21/2012	Total Suspended Solids	n/a	=	140	mg/L	SM 2540 D	5	5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/19/2012	Turbidity	n/a	=	57	NTU	EPA 180.1	0.024	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/21/2012	Volatile Suspended Solids	n/a	=	37	mg/L	EPA 160.4	3.1	5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Aluminum	Dissolved	=	23	µg/L	EPA 200.8	0.61	5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Aluminum	Total	=	1200	µg/L	EPA 200.8	0.61	5	WKL	GB
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Antimony	Dissolved	=	0.56	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Antimony	Total	=	1.2	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Arsenic	Dissolved	=	0.77	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Arsenic	Total	=	1.3	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Cadmium	Dissolved	DNQ	0.041	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Cadmium	Total	=	0.23	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Chromium	Dissolved	=	0.5	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Chromium	Total	=	2.9	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/20/2012	Chromium VI	n/a	DNQ	0.26	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Copper	Dissolved	=	6.2	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Copper	Total	=	18	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/26/2012	Iron	Dissolved	=	60	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/26/2012	Iron	Total	=	1900	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Lead	Dissolved	=	0.2	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Lead	Total	=	4.8	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/22/2012	Mercury	Dissolved	DNQ	32	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/22/2012	Mercury	Total	DNQ	39	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Nickel	Dissolved	=	1.8	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Nickel	Total	=	4.6	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Selenium	Total	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Silver	Total	DNQ	0.036	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Thallium	Total	DNQ	0.022	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Zinc	Dissolved	=	33	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/4/2012	Zinc	Total	=	110	µg/L	EPA 200.8	1.1	5	WKL	GB
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/27/2012	Ammonia as N	n/a	=	0.48	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	0.67	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.23	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/30/2012	Phosphorus as P	Total	=	0.44	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/29/2012	TKN	n/a	=	1.7	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Benidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.5	µg/L	EPA 525.2	1.1	3	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Butyl benzyl phthalate	n/a	DNQ	0.8	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Diethyl phthalate	n/a	=	2.8	µg/L	EPA 625	0.15	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/5/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/9/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	4,4'-DDE	n/a	DNQ	0.014	µg/L	EPA 608	0.0025	0.05	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Chloroprotham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Chlorpyrifos	n/a	=	0.02	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Dimethoate	n/a	=	0.021	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/19/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Malathion	n/a	=	0.11	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/23/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2011/12-3	Wet	3/18/2012 8:20:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/7/2012	Chloride	n/a	=	140	mg/L	EPA 300.0	1	5	WKL	D
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/7/2012	Fluoride	n/a	=	1.1	mg/L	EPA 300.0	0.02	0.1	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/1/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 9:15:00 AM	5/25/2012 9:15:00 AM	E. Coli	n/a	=	41	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/28/2012 12:35:00 PM	Fecal Coliform	n/a	=	23	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/25/2012 9:15:00 AM	Total Coliform	n/a	=	12100	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/4/2012	Calcium	Total	=	96	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/4/2012	Magnesium	Total	=	15	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/30/2012	Alkalinity as CaCO3	n/a	=	150	mg/L	SM 2320 B	0.56	10	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/30/2012	BOD	n/a	=	7.2	mg/L	SM 5210 B	0.1	2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/1/2012	COD	n/a	=	82	mg/L	EPA 410.4	0.73	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/24/2012 11:00:00 AM	Conductivity	n/a	=	2624	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/7/2012	Cyanide	Total	DNQ	0.0032	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/24/2012 11:00:00 AM	DO	n/a	=	17.21	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/24/2012 11:00:00 AM	DO	n/a	=	226.5	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/4/2012	Hardness as CaCO3	Total	=	300	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/25/2012	MBAS	n/a	=	0.12	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/24/2012 11:00:00 AM	pH	n/a	=	9.85	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Phenolics	n/a	=	0.062	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/24/2012 11:00:00 AM	Salinity	n/a	=	1200	mg/L	Field Meter	-88	100	Field Crew	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/24/2012 11:00:00 AM	Specific Conductance	n/a	=	2425	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/31/2012	Specific Conductance	n/a	=	1300	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/24/2012 11:00:00 AM	Temperature	n/a	=	29.1	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/30/2012	Total Dissolved Solids	n/a	=	660	mg/L	SM 2540 C	4	10	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/4/2012	Total Organic Carbon	n/a	=	19	mg/L	SM 5310 C	0.09	3	WKL	D
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/30/2012	Total Suspended Solids	n/a	=	12	mg/L	SM 2540 D	5	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/25/2012	Turbidity	n/a	=	5.9	NTU	EPA 180.1	0.024	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/30/2012	Volatile Suspended Solids	n/a	=	6	mg/L	EPA 160.4	3.1	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/4/2012	Oil and Grease	n/a	DNQ	1.4	mg/L	EPA 1664A	1.3	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/4/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Aluminum	Dissolved	DNQ	1.7	µg/L	EPA 200.8	0.61	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Aluminum	Total	=	26	µg/L	EPA 200.8	0.61	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Antimony	Dissolved	=	0.93	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Antimony	Total	=	0.96	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Arsenic	Dissolved	=	2.9	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Arsenic	Total	=	3.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Cadmium	Dissolved	DNQ	0.089	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Cadmium	Total	=	0.11	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Chromium	Dissolved	=	0.36	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Chromium	Total	=	0.73	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Chromium VI	n/a	DNQ	0.13	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Copper	Dissolved	=	20	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Copper	Total	=	25	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/4/2012	Iron	Dissolved	=	16	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/4/2012	Iron	Total	=	87	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Lead	Dissolved	DNQ	0.046	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Lead	Total	DNQ	0.18	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Mercury	Dissolved	DNQ	8	ng/L	EPA 245.1	3.9	50	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Mercury	Total	DNQ	9	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Nickel	Dissolved	=	4.9	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Nickel	Total	=	5.5	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Selenium	Dissolved	=	0.69	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Selenium	Total	=	0.67	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Silver	Dissolved	DNQ	0.039	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Silver	Total	DNQ	0.035	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Thallium	Total	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Zinc	Dissolved	DNQ	4.4	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/6/2012	Zinc	Total	=	5.8	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Ammonia as N	n/a	=	0.26	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/25/2012	Nitrate + Nitrite as N	n/a	=	10	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/11/2012	Phosphorus as P	Dissolved	=	0.69	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/11/2012	Phosphorus as P	Total	=	0.86	mg/L	EPA 365.1	0.007	0.05	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	TKN	n/a	=	3	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Benzenzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Diethyl phthalate	n/a	=	3.6	µg/L	EPA 625	0.15	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Di-n-butylphthalate	n/a	DNQ	0.49	µg/L	EPA 625	0.24	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2,4-D	n/a	=	7.9	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	

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Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Dicamba	n/a	=	0.8	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Ethyl parathion	n/a	DNQ	0.0058	µg/L	EPA 525.2	0.0054	0.01	WKL	EUM
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	5/29/2012	Glyphosate	n/a	=	29	µg/L	EPA 547	1.8	5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Malathion	n/a	=	0.014	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	

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Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/5/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Ronnel (Fenchlorphos)	n/a	=	0.029	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/8/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2011/12-4	Dry	5/24/2012 11:00:00 AM	6/2/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/17/2012 6:48:00 AM	E. Coli	n/a	=	19863	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/17/2012 6:48:00 AM	Total Coliform	n/a	=	613100	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Calcium	Total	=	95	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Magnesium	Total	=	29	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Conductivity	n/a	=	1670	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Discharge	n/a	=	0.02	cfs	Field Meter	-88	-88	Field Crew	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	DO	n/a	=	12.86	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	DO	n/a	=	164.1	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Hardness as CaCO3	Total	=	360	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	pH	n/a	=	9.02	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Specific Conductance	n/a	=	1599	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Temperature	n/a	=	27.2	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/22/2012	Total Organic Carbon	n/a	=	23	mg/L	SM 5310 C	0.09	3	WKL	D
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/16/2012 10:20:00 AM	Turbidity	n/a	=	56.8	NTU	Field Meter	-88	0.01	Field Crew	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Copper	Dissolved	=	99	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Copper	Total	=	190	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Lead	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Lead	Total	=	3.2	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Zinc	Dissolved	=	8.2	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2012-DRY	Dry	8/16/2012 10:20:00 AM	8/24/2012	Zinc	Total	=	46	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/6/2011 7:30:00 AM	E. Coli	n/a	=	4611	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/7/2011 2:10:00 PM	Fecal Coliform	n/a	=	17000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/6/2011 7:30:00 AM	Total Coliform	n/a	=	129970	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/5/2011 7:15:00 AM	Conductivity	n/a	=	783	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/17/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/5/2011 7:15:00 AM	DO	n/a	=	66.1	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/5/2011 7:15:00 AM	DO	n/a	=	6.26	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/5/2011 7:15:00 AM	pH	n/a	=	7.2	pH Units	Field Meter	-88	0.01	Field Crew	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/5/2011 7:15:00 AM	Salinity	n/a	=	400	mg/L	Field Meter	-88	100	Field Crew	
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/5/2011 7:15:00 AM	Specific Conductance	n/a	=	888	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/5/2011 7:15:00 AM	Temperature	n/a	=	18.9	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/11/2011	2-Chloroethyl vinyl ether	n/a	<	6.1	µg/L	EPA 524.2	6.1	10	WKL	D
MO-FIL	2011/12-1	Wet	10/5/2011 7:15:00 AM	10/11/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.9	µg/L	EPA 524.2	1.9	20	WKL	D
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Chloride	n/a	=	20	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Fluoride	n/a	=	0.21	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/11/2011	Perchlorate	n/a	=	8.6	µg/L	EPA 314.0	0.95	2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/11/2011	Calcium	Total	=	40	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/11/2011	Magnesium	Total	=	11	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/17/2011	Alkalinity as CaCO3	n/a	=	49	mg/L	SM 2320 B	0.56	2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	BOD	n/a	=	5.3	mg/L	SM 5210 B	0.1	2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/10/2011	COD	n/a	=	53	mg/L	EPA 410.4	0.73	5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/11/2011	Hardness as CaCO3	Total	=	140	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/7/2011	MBAS	n/a	=	0.32	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/17/2011	Phenolics	n/a	=	0.065	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	Specific Conductance	n/a	=	340	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Total Dissolved Solids	n/a	=	220	mg/L	SM 2540 C	4	10	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/26/2011	Total Organic Carbon	n/a	=	13	mg/L	SM 5310 C	0.072	2.4	WKL	D
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/10/2011	Total Suspended Solids	n/a	=	33	mg/L	SM 2540 D	5	5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/7/2011	Turbidity	n/a	=	13	NTU	EPA 180.1	0.024	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/10/2011	Volatile Suspended Solids	n/a	=	10	mg/L	EPA 160.4	3.1	5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Aluminum	Dissolved	=	31	µg/L	EPA 200.8	0.61	5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Aluminum	Total	=	620	µg/L	EPA 200.8	6.1	50	WKL	D
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Antimony	Dissolved	=	0.57	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Antimony	Total	=	0.77	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Arsenic	Dissolved	=	5.8	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Arsenic	Total	=	5.8	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Cadmium	Dissolved	=	0.13	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Cadmium	Total	=	0.32	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Chromium	Dissolved	=	1.1	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Chromium	Total	=	3.3	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/10/2011	Chromium VI	n/a	=	0.52	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Copper	Dissolved	=	7.5	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Copper	Total	=	13	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/11/2011	Iron	Dissolved	=	56	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/11/2011	Iron	Total	=	1100	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Lead	Dissolved	=	0.32	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Lead	Total	=	2.2	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/10/2011	Mercury	Dissolved	DNQ	32	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/10/2011	Mercury	Total	DNQ	32	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Nickel	Dissolved	=	2.8	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Nickel	Total	=	4.4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Selenium	Dissolved	=	1.2	µg/L	EPA 200.8	0.28	0.4	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Selenium	Total	=	1.4	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Silver	Total	DNQ	0.037	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Thallium	Total	DNQ	0.021	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Zinc	Dissolved	=	38	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/12/2011	Zinc	Total	=	75	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	Ammonia as N	n/a	=	0.35	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/20/2011	Nitrate + Nitrite as N	n/a	=	1.3	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Phosphorus as P	Dissolved	=	0.31	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Phosphorus as P	Total	=	0.42	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/17/2011	TKN	n/a	=	1.6	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/25/2011	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Benizidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.4	µg/L	EPA 525.2	1.1	3	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Butyl benzyl phthalate	n/a	DNQ	0.91	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Diethyl phthalate	n/a	DNQ	0.75	µg/L	EPA 625	0.15	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/29/2011	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/24/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/25/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Chloroprotham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Chlorpyrifos	n/a	=	0.026	µg/L	EPA 525.2	0.0069	0.01	WKL	GB
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	DCCA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Diazinon	n/a	=	0.031	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Fensulfotion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/17/2011	Glyphosate	n/a	=	15	µg/L	EPA 547	1.8	5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Malathion	n/a	=	0.036	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	Pentachlorophenol	n/a	DNQ	0.069	µg/L	EPA 515.3	0.04	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/18/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/14/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/19/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2011/12-1	Wet	10/6/2011 8:00:00 AM	10/21/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	146	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/25/2012 8:55:00 AM	Fecal Coliform	n/a	=	130	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	14136	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	Conductivity	n/a	=	1150	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	DO	n/a	=	73.4	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	DO	n/a	=	7.2	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	pH	n/a	=	7.54	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	Salinity	n/a	=	700	mg/L	Field Meter	-88	100	Field Crew	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	Specific Conductance	n/a	=	1314	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/21/2012 2:45:00 AM	Temperature	n/a	=	16.2	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/23/2012	Oil and Grease	n/a	DNQ	1.5	mg/L	EPA 1664A	1.3	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 2:45:00 AM	1/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/25/2012	Chloride	n/a	=	14	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/25/2012	Fluoride	n/a	=	0.22	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/23/2012	Calcium	Total	=	49	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/23/2012	Magnesium	Total	=	13	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Alkalinity as CaCO3	n/a	=	77	mg/L	SM 2320 B	0.56	10	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/27/2012	BOD	n/a	=	6.2	mg/L	SM 5210 B	0.1	2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/26/2012	COD	n/a	=	42	mg/L	EPA 410.4	0.73	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/23/2012	Hardness as CaCO3	Total	=	180	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/22/2012	MBAS	n/a	=	0.15	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Phenolics	n/a	=	0.073	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/24/2012	Specific Conductance	n/a	=	380	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/25/2012	Total Dissolved Solids	n/a	=	260	mg/L	SM 2540 C	4	10	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/26/2012	Total Organic Carbon	n/a	=	8.9	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/24/2012	Total Suspended Solids	n/a	=	38	mg/L	SM 2540 D	5	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/22/2012	Turbidity	n/a	=	11	NTU	EPA 180.1	0.024	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/24/2012	Volatile Suspended Solids	n/a	=	11	mg/L	EPA 160.4	3.1	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Aluminum	Dissolved	=	17	µg/L	EPA 200.8	0.61	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Aluminum	Total	=	650	µg/L	EPA 200.8	0.61	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Antimony	Dissolved	DNQ	0.32	µg/L	EPA 200.8	0.04	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Antimony	Total	=	0.54	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Arsenic	Dissolved	=	0.72	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Arsenic	Total	=	0.99	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Cadmium	Dissolved	DNQ	0.09	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Cadmium	Total	=	0.36	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Chromium	Dissolved	=	0.55	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Chromium	Total	=	2.6	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/23/2012	Chromium VI	n/a	DNQ	0.24	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Copper	Dissolved	=	4.3	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Copper	Total	=	10	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/23/2012	Iron	Dissolved	=	29	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/23/2012	Iron	Total	=	1100	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Lead	Dissolved	DNQ	0.17	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Lead	Total	=	2.4	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/24/2012	Mercury	Dissolved	DNQ	6	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/24/2012	Mercury	Total	DNQ	8	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Nickel	Dissolved	=	1.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Nickel	Total	=	2.9	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Selenium	Dissolved	=	1.9	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Selenium	Total	=	2.1	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Thallium	Total	DNQ	0.02	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Zinc	Dissolved	=	19	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/28/2012	Zinc	Total	=	57	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/27/2012	Ammonia as N	n/a	=	0.42	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/22/2012	Nitrate + Nitrite as N	n/a	=	1.3	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Phosphorus as P	Dissolved	=	0.2	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Phosphorus as P	Total	=	0.33	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/2/2012	TKN	n/a	=	1.5	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Benzdine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.7	µg/L	EPA 525.2	1.1	3	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Butyl benzyl phthalate	n/a	DNQ	0.45	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Diethyl phthalate	n/a	DNQ	0.4	µg/L	EPA 625	0.15	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Diazinon	n/a	DNQ	0.0053	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/23/2012	Glyphosate	n/a	=	16	µg/L	EPA 547	1.8	5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Malathion	n/a	=	0.056	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	Pentachlorophenol	n/a	DNQ	0.079	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2011/12-2	Wet	1/21/2012 9:45:00 AM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/18/2012 7:00:00 AM	E. Coli	n/a	=	2755	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/20/2012 10:50:00 AM	Fecal Coliform	n/a	=	5000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/18/2012 7:00:00 AM	Total Coliform	n/a	=	275500	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/17/2012 6:30:00 AM	Conductivity	n/a	=	965	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/17/2012 6:30:00 AM	DO	n/a	=	46	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/17/2012 6:30:00 AM	DO	n/a	=	4.5	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/17/2012 6:30:00 AM	pH	n/a	=	7.6	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/17/2012 6:30:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/17/2012 6:30:00 AM	Specific Conductance	n/a	=	1160	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/17/2012 6:30:00 AM	Temperature	n/a	=	16.3	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/20/2012	Oil and Grease	n/a	DNQ	1.5	mg/L	EPA 1664A	1.3	5	WKL	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/19/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-3	Wet	3/17/2012 6:30:00 AM	3/19/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/21/2012	Chloride	n/a	=	12	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/21/2012	Fluoride	n/a	=	0.21	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/23/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/26/2012	Calcium	Total	=	33	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/26/2012	Magnesium	Total	=	8.5	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	51	mg/L	SM 2320 B	0.56	2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	BOD	n/a	=	5.8	mg/L	SM 5210 B	0.1	2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/23/2012	COD	n/a	=	37	mg/L	EPA 410.4	0.73	5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/26/2012	Hardness as CaCO3	Total	=	120	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/19/2012	MBAS	n/a	=	0.17	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.23	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/29/2012	Phenolics	n/a	=	0.015	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/20/2012	Specific Conductance	n/a	=	320	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	200	mg/L	SM 2540 C	4	10	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/22/2012	Total Organic Carbon	n/a	=	8.9	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/23/2012	Total Suspended Solids	n/a	=	38	mg/L	SM 2540 D	5	5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/19/2012	Turbidity	n/a	=	38	NTU	EPA 180.1	0.024	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/23/2012	Volatile Suspended Solids	n/a	=	8	mg/L	EPA 160.4	3.1	5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Aluminum	Dissolved	=	20	µg/L	EPA 200.8	0.61	5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Aluminum	Total	=	590	µg/L	EPA 200.8	0.61	5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Antimony	Dissolved	DNQ	0.47	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Antimony	Total	=	0.65	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Arsenic	Dissolved	=	1.3	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Arsenic	Total	=	1.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Cadmium	Dissolved	=	0.15	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Cadmium	Total	=	0.4	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Chromium	Dissolved	=	0.97	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Chromium	Total	=	2.7	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/20/2012	Chromium VI	n/a	=	0.48	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Copper	Dissolved	=	5.2	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Copper	Total	=	9	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/26/2012	Iron	Dissolved	=	42	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/26/2012	Iron	Total	=	970	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Lead	Dissolved	DNQ	0.13	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Lead	Total	=	2	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/22/2012	Mercury	Dissolved	DNQ	30	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/22/2012	Mercury	Total	DNQ	36	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Nickel	Dissolved	=	2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Nickel	Total	=	3.6	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Selenium	Dissolved	=	1.4	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Selenium	Total	=	1.5	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Thallium	Total	DNQ	0.028	µg/L	EPA 200.8	0.009	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Zinc	Dissolved	=	22	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/4/2012	Zinc	Total	=	47	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/27/2012	Ammonia as N	n/a	=	0.34	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	1.1	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.18	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/30/2012	Phosphorus as P	Total	=	0.29	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/29/2012	TKN	n/a	=	1.1	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Benzdine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Diethyl phthalate	n/a	DNQ	0.69	µg/L	EPA 625	0.15	1	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	2,4-D	n/a	=	2.2	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Chloroprotham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Chlorpyrifos	n/a	DNQ	0.0074	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Dimethoate	n/a	=	0.027	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/19/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Malathion	n/a	=	0.021	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	Pentachlorophenol	n/a	DNQ	0.18	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/24/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2011/12-3	Wet	3/18/2012 8:10:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Chloride	n/a	=	110	mg/L	EPA 300.0	1	5	WKL	D
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Fluoride	n/a	=	0.9	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/25/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/23/2012 9:00:00 AM	E. Coli	n/a	=	529	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/26/2012 12:50:00 PM	Fecal Coliform	n/a	=	500	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/23/2012 9:00:00 AM	Total Coliform	n/a	=	19863	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/1/2012	Calcium	Total	=	170	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/1/2012	Magnesium	Total	=	51	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Alkalinity as CaCO3	n/a	=	280	mg/L	SM 2320 B	0.56	10	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	BOD	n/a	DNQ	1.3	mg/L	SM 5210 B	0.1	2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/24/2012	COD	n/a	DNQ	3	mg/L	EPA 410.4	0.73	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/22/2012 8:28:00 AM	Conductivity	n/a	=	1310	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/7/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/22/2012 8:28:00 AM	DO	n/a	=	61.1	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/22/2012 8:28:00 AM	DO	n/a	=	6.21	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/1/2012	Hardness as CaCO3	Total	=	630	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/23/2012	MBAS	n/a	DNQ	0.038	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/22/2012 8:28:00 AM	pH	n/a	=	8.04	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	Phenolics	n/a	=	0.071	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/22/2012 8:28:00 AM	Salinity	n/a	=	800	mg/L	Field Meter	-88	100	Field Crew	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/22/2012 8:28:00 AM	Specific Conductance	n/a	=	1559	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/25/2012	Specific Conductance	n/a	=	1800	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/22/2012 8:28:00 AM	Temperature	n/a	=	18.8	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/25/2012	Total Dissolved Solids	n/a	=	840	mg/L	SM 2540 C	4	10	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/1/2012	Total Organic Carbon	n/a	=	2.7	mg/L	SM 5310 C	0.018	0.6	WKL	D
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/24/2012	Total Suspended Solids	n/a	=	10	mg/L	SM 2540 D	5	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/23/2012	Turbidity	n/a	=	2.4	NTU	EPA 180.1	0.024	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/24/2012	Volatile Suspended Solids	n/a	DNQ	4	mg/L	EPA 160.4	3.1	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Aluminum	Dissolved	DNQ	2.3	µg/L	EPA 200.8	0.61	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Aluminum	Total	=	42	µg/L	EPA 200.8	0.61	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Antimony	Dissolved	DNQ	0.3	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Antimony	Total	DNQ	0.31	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Arsenic	Dissolved	=	0.49	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Arsenic	Total	=	0.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Cadmium	Dissolved	DNQ	0.079	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Cadmium	Total	=	0.12	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Chromium	Dissolved	=	0.22	µg/L	EPA 200.8	0.074	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Chromium	Total	=	0.91	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/1/2012	Chromium VI	n/a	DNQ	0.067	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Copper	Dissolved	=	1.9	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Copper	Total	=	3.3	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/1/2012	Iron	Dissolved	<	1.1	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/1/2012	Iron	Total	=	110	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Lead	Dissolved	DNQ	0.024	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Lead	Total	DNQ	0.024	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Mercury	Dissolved	DNQ	10	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Mercury	Total	DNQ	15	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Nickel	Dissolved	=	1.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Nickel	Total	=	1.6	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Selenium	Dissolved	=	8.8	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Selenium	Total	=	8.3	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Thallium	Total	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Zinc	Dissolved	DNQ	3.5	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Zinc	Total	=	6.2	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/5/2012	Ammonia as N	n/a	=	0.21	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/23/2012	Nitrate + Nitrite as N	n/a	=	2.5	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Phosphorus as P	Dissolved	=	0.066	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Phosphorus as P	Total	=	0.09	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/7/2012	TKN	n/a	=	0.3	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/24/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Diethyl phthalate	n/a	DNQ	0.47	µg/L	EPA 625	0.15	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/24/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/31/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Dimethoate	n/a	DNQ	0.0093	µg/L	EPA 525.2	0.0062	0.01	WKL	EUM
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/29/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/4/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	5/30/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/6/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2011/12-4	Dry	5/22/2012 8:28:00 AM	6/2/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/16/2012 8:35:00 AM	E. Coli	n/a	=	1850	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/16/2012 8:35:00 AM	Total Coliform	n/a	=	107600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/24/2012	Calcium	Total	=	180	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/24/2012	Magnesium	Total	=	57	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/15/2012 9:15:00 AM	Conductivity	n/a	=	1493	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/15/2012 9:15:00 AM	Discharge	n/a	=	0.9	cfs	Field Meter	-88	-88	Field Crew	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/15/2012 9:15:00 AM	DO	n/a	=	4.52	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/15/2012 9:15:00 AM	DO	n/a	=	52.2	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/24/2012	Hardness as CaCO3	Total	=	680	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/15/2012 9:15:00 AM	pH	n/a	=	7.81	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/15/2012 9:15:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/15/2012 9:15:00 AM	Specific Conductance	n/a	=	1615	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/15/2012 9:15:00 AM	Temperature	n/a	=	21.1	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/22/2012	Total Organic Carbon	n/a	=	3.1	mg/L	SM 5310 C	0.018	0.6	WKL	D
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/15/2012 9:15:00 AM	Turbidity	n/a	=	2.45	NTU	Field Meter	-88	0.01	Field Crew	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/24/2012	Copper	Dissolved	=	2.9	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/24/2012	Copper	Total	=	4.7	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/24/2012	Lead	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/24/2012	Lead	Total	=	0.32	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/24/2012	Zinc	Dissolved	=	6.2	µg/L	EPA 200.8	1.1	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012-DRY	Dry	8/15/2012 9:15:00 AM	8/24/2012	Zinc	Total	=	8.1	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/6/2011 9:35:00 AM	E. Coli	n/a	=	12033	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/8/2011 12:30:00 PM	Fecal Coliform	n/a	=	5200	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/6/2011 9:35:00 AM	Total Coliform	n/a	=	155310	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	Conductivity	n/a	=	1410	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/18/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	DO	n/a	=	5.3	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	DO	n/a	=	58.1	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	pH	n/a	=	7.5	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	Specific Conductance	n/a	=	1678	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	Temperature	n/a	=	17.2	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/7/2011	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-HUE	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/7/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/12/2011	Chloride	n/a	=	1100	mg/L	EPA 300.0	10	50	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/12/2011	Fluoride	n/a	=	0.38	mg/L	EPA 300.0	0.04	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/13/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/18/2011	Calcium	Total	=	130	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/18/2011	Magnesium	Total	=	110	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/17/2011	Alkalinity as CaCO3	n/a	=	170	mg/L	SM 2320 B	0.56	2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/14/2011	BOD	n/a	=	8.9	mg/L	SM 5210 B	0.1	2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/17/2011	COD	n/a	=	70	mg/L	EPA 410.4	0.73	5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/18/2011	Hardness as CaCO3	Total	=	770	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/7/2011	MBAS	n/a	=	0.088	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/17/2011	Phenolics	n/a	=	0.066	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/18/2011	Specific Conductance	n/a	=	3900	µmhos/cm	SM 2510 B	0.94	8	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/12/2011	Total Dissolved Solids	n/a	=	2400	mg/L	SM 2540 C	4	10	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/28/2011	Total Organic Carbon	n/a	=	11	mg/L	SM 5310 C	0.072	2.4	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/12/2011	Total Suspended Solids	n/a	=	81	mg/L	SM 2540 D	5	5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/7/2011	Turbidity	n/a	=	32	NTU	EPA 180.1	0.024	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/12/2011	Volatile Suspended Solids	n/a	=	21	mg/L	EPA 160.4	3.1	5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Aluminum	Dissolved	DNQ	3	µg/L	EPA 200.8	0.61	5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Aluminum	Total	=	750	µg/L	EPA 200.8	0.61	5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Antimony	Dissolved	=	0.68	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Antimony	Total	=	1.1	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Arsenic	Total	=	3.3	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Barium	Total	=	55	µg/L	EPA 200.8	0.03	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Cadmium	Dissolved	DNQ	0.08	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Cadmium	Total	=	0.25	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Chromium	Dissolved	DNQ	0.16	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Chromium	Total	=	2.3	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/10/2011	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Copper	Dissolved	=	3.8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Copper	Total	=	11	µg/L	EPA 200.8	0.27	0.5	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Iron	Dissolved	=	25	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Iron	Total	=	4800	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Lead	Dissolved	DNQ	0.013	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Lead	Total	=	5.8	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Mercury	Dissolved	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Mercury	Total	DNQ	40	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Nickel	Dissolved	=	4.7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Nickel	Total	=	6.8	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Selenium	Dissolved	DNQ	0.29	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Selenium	Total	=	0.46	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Silver	Total	DNQ	0.03	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Thallium	Total	DNQ	0.019	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Zinc	Dissolved	=	9.4	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Zinc	Total	=	46	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/18/2011	Ammonia as N	n/a	=	0.81	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/20/2011	Nitrate + Nitrite as N	n/a	=	0.48	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Phosphorus as P	Dissolved	=	0.074	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Phosphorus as P	Total	=	0.74	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/20/2011	TKN	n/a	=	2.7	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D, EUM
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Acenaphthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Acenaphthylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Anthracene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Benz(a)anthracene	n/a	<	2.8	µg/L	EPA 8270Cm	2.8	5	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Benizidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Benzo(a)pyrene	n/a	<	0.14	µg/L	EPA 525.2	0.14	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Benzo(b)fluoranthene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Benzo(k)fluoranthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.21	µg/L	EPA 525.2	0.21	10	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Bis(2-ethylhexyl)phthalate	n/a	<	2.1	µg/L	EPA 525.2	2.1	6	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Butyl benzyl phthalate	n/a	DNQ	0.19	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Chrysene	n/a	<	0.9	µg/L	EPA 8270Cm	0.9	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Diethyl phthalate	n/a	DNQ	0.37	µg/L	EPA 625	0.15	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Dimethyl phthalate	n/a	=	8.3	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Di-n-butylphthalate	n/a	DNQ	0.27	µg/L	EPA 625	0.24	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Fluoranthene	n/a	<	2	µg/L	EPA 8270Cm	2	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Fluorene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Naphthalene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/29/2011	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Phenanthrene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/25/2011	Pyrene	n/a	<	2.1	µg/L	EPA 8270Cm	2.1	5	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	IL
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Alachlor	n/a	<	0.044	µg/L	EPA 525.2	0.044	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Atrazine	n/a	<	0.068	µg/L	EPA 525.2	0.068	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Bromacil	n/a	<	0.076	µg/L	EPA 525.2	0.076	2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Butachlor	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.4	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Captan	n/a	<	1.7	µg/L	EPA 525.2	1.7	2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Chlorpropham	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Cyanazine	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Diazinon	n/a	DNQ	0.0087	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	EUM, GB, IL
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Diphenamid	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	EPTC	n/a	<	0.034	µg/L	EPA 525.2	0.034	2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/17/2011	Glyphosate	n/a	=	13	µg/L	EPA 547	1.8	5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Malathion	n/a	=	0.095	µg/L	EPA 525.2	0.0076	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Metolachlor	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Metribuzin	n/a	<	0.03	µg/L	EPA 525.2	0.03	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Molinate	n/a	<	0.078	µg/L	EPA 525.2	0.078	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/19/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Prometon	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.4	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Prometryn	n/a	<	0.072	µg/L	EPA 525.2	0.072	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Simazine	n/a	<	0.03	µg/L	EPA 525.2	0.03	0.2	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Terbacil	n/a	<	1.1	µg/L	EPA 525.2	1.1	4	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Thiobencarb	n/a	<	0.05	µg/L	EPA 525.2	0.05	0.4	WKL	D
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/21/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2011/12-1	Wet	10/6/2011 11:05:00 AM	10/27/2011	Trithion	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	D
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	5172	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/25/2012 9:03:00 AM	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	61310	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/21/2012 3:30:00 AM	Conductivity	n/a	=	5630	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/21/2012 3:30:00 AM	DO	n/a	=	47.4	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/21/2012 3:30:00 AM	DO	n/a	=	4.47	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/21/2012 3:30:00 AM	pH	n/a	=	7.6	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/21/2012 3:30:00 AM	Salinity	n/a	=	3800	mg/L	Field Meter	-88	100	Field Crew	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/21/2012 3:30:00 AM	Specific Conductance	n/a	=	6790	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/21/2012 3:30:00 AM	Temperature	n/a	=	15.4	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/23/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 3:30:00 AM	1/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Chloride	n/a	=	1900	mg/L	EPA 300.0	5	25	WKL	D
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Fluoride	n/a	=	0.41	mg/L	EPA 300.0	0.04	0.2	WKL	D
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/24/2012	Calcium	Total	=	130	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/24/2012	Magnesium	Total	=	150	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/30/2012	Alkalinity as CaCO3	n/a	=	230	mg/L	SM 2320 B	0.56	10	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/27/2012	BOD	n/a	=	6.6	mg/L	SM 5210 B	0.1	2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/26/2012	COD	n/a	=	58	mg/L	EPA 410.4	0.73	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/24/2012	Hardness as CaCO3	Total	=	940	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/22/2012	MBAS	n/a	=	0.16	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Phenolics	n/a	=	0.016	mg/L	EPA 420.4	0.0042	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Specific Conductance	n/a	=	8000	µmhos/cm	SM 2510 B	2.3	20	WKL	D
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/25/2012	Total Dissolved Solids	n/a	=	3100	mg/L	SM 2540 C	4	10	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/26/2012	Total Organic Carbon	n/a	=	7.7	mg/L	SM 5310 C	0.045	1.5	WKL	D
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/26/2012	Total Suspended Solids	n/a	=	52	mg/L	SM 2540 D	5	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/22/2012	Turbidity	n/a	=	8.4	NTU	EPA 180.1	0.024	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/26/2012	Volatile Suspended Solids	n/a	=	15	mg/L	EPA 160.4	3.1	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Aluminum	Dissolved	=	8.6	µg/L	EPA 200.8	0.61	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Aluminum	Total	=	500	µg/L	EPA 200.8	0.61	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Antimony	Dissolved	DNQ	0.31	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Antimony	Total	DNQ	0.44	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Arsenic	Total	=	2.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Cadmium	Dissolved	DNQ	0.051	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Cadmium	Total	=	0.16	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Chromium	Dissolved	=	0.23	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Chromium	Total	=	2.3	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/23/2012	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Copper	Dissolved	=	2.1	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Copper	Total	=	7.5	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/24/2012	Iron	Dissolved	=	95	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/24/2012	Iron	Total	=	3000	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Lead	Dissolved	DNQ	0.082	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Lead	Total	=	3.6	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/25/2012	Mercury	Dissolved	DNQ	16	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/25/2012	Mercury	Total	DNQ	24	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Nickel	Dissolved	=	4.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Nickel	Total	=	5.9	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Selenium	Dissolved	=	0.46	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Selenium	Total	=	1.5	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Silver	Total	DNQ	0.11	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Thallium	Total	DNQ	0.014	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Zinc	Dissolved	=	7.6	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Zinc	Total	=	26	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/27/2012	Ammonia as N	n/a	=	0.47	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/21/2012 5:30:00 PM	Nitrate + Nitrite as N	n/a	=	0.37	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Phosphorus as P	Dissolved	=	0.1	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Phosphorus as P	Total	=	0.49	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	TKN	n/a	=	1.3	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Benzo(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Benzenzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Diethyl phthalate	n/a	DNQ	0.47	µg/L	EPA 625	0.15	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Dimethyl phthalate	n/a	=	14	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Chlorpyrifos	n/a	DNQ	0.0087	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Dimethoate	n/a	=	0.044	µg/L	EPA 525.2	0.0062	0.01	WKL	GB
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Endosulfan sulfate	n/a	DNQ	0.0088	µg/L	EPA 608	0.008	0.05	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/23/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Malathion	n/a	=	0.027	µg/L	EPA 525.2	0.0076	0.01	WKL	GB
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	2/2/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2011/12-2	Wet	1/21/2012 8:45:00 AM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/18/2012 6:30:00 AM	E. Coli	n/a	=	8664	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/20/2012 11:53:00 AM	Fecal Coliform	n/a	=	16000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/18/2012 6:30:00 AM	Total Coliform	n/a	=	51720	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/17/2012 7:30:00 AM	Conductivity	n/a	=	3439	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/17/2012 7:30:00 AM	DO	n/a	=	4.86	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/17/2012 7:30:00 AM	DO	n/a	=	50.3	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/17/2012 7:30:00 AM	pH	n/a	=	7.7	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/17/2012 7:30:00 AM	Salinity	n/a	=	2200	mg/L	Field Meter	-88	100	Field Crew	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/17/2012 7:30:00 AM	Specific Conductance	n/a	=	4185	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/17/2012 7:30:00 AM	Temperature	n/a	=	15.7	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/20/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/20/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-HUE	2011/12-3	Wet	3/17/2012 7:30:00 AM	3/20/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/22/2012	Chloride	n/a	=	470	mg/L	EPA 300.0	1	5	WKL	D
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/21/2012	Fluoride	n/a	=	0.43	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/27/2012	Calcium	Total	=	130	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/27/2012	Magnesium	Total	=	63	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	200	mg/L	SM 2320 B	0.56	2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	BOD	n/a	=	16	mg/L	SM 5210 B	0.1	2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/23/2012	COD	n/a	=	64	mg/L	EPA 410.4	0.73	5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/27/2012	Hardness as CaCO3	Total	=	570	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/19/2012	MBAS	n/a	=	0.31	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.59	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/29/2012	Phenolics	n/a	=	0.032	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/20/2012	Specific Conductance	n/a	=	2600	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	1400	mg/L	SM 2540 C	4	10	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/22/2012	Total Organic Carbon	n/a	=	19	mg/L	SM 5310 C	0.09	3	WKL	D
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/23/2012	Total Suspended Solids	n/a	=	39	mg/L	SM 2540 D	5	5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/19/2012	Turbidity	n/a	=	33	NTU	EPA 180.1	0.024	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/23/2012	Volatile Suspended Solids	n/a	=	12	mg/L	EPA 160.4	3.1	5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Aluminum	Dissolved	=	7.3	µg/L	EPA 200.8	0.61	5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Aluminum	Total	=	350	µg/L	EPA 200.8	0.61	5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Antimony	Dissolved	=	0.55	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Antimony	Total	=	0.73	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Arsenic	Total	=	2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Cadmium	Dissolved	DNQ	0.065	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Cadmium	Total	=	0.14	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Chromium	Dissolved	DNQ	0.17	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Chromium	Total	=	1.2	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/20/2012	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Copper	Dissolved	=	2.8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Copper	Total	=	6.5	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/27/2012	Iron	Dissolved	=	120	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/27/2012	Iron	Total	=	1900	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Lead	Dissolved	DNQ	0.082	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Lead	Total	=	1.8	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/22/2012	Mercury	Dissolved	DNQ	31	ng/L	EPA 245.1	3.9	50	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/22/2012	Mercury	Total	DNQ	37	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Nickel	Dissolved	=	5.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Nickel	Total	=	6.1	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Selenium	Dissolved	=	1.5	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Selenium	Total	=	1.7	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Silver	Total	DNQ	0.03	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Thallium	Total	DNQ	0.0098	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Zinc	Dissolved	=	9.7	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/4/2012	Zinc	Total	=	23	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/27/2012	Ammonia as N	n/a	=	0.76	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	0.47	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.11	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/30/2012	Phosphorus as P	Total	=	0.38	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/29/2012	TKN	n/a	=	1.7	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Benzenzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Benzo(a)pyrene	n/a	=	0.23	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	DNQ	0.49	µg/L	EPA 525.2	0.1	5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.2	µg/L	EPA 525.2	1.1	3	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Diethyl phthalate	n/a	DNQ	0.56	µg/L	EPA 625	0.15	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Dimethyl phthalate	n/a	=	11	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	EUM
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	DCPA (Daacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Fensulfotion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/19/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	Pentachlorophenol	n/a	DNQ	0.1	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/24/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	4/3/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2011/12-3	Wet	3/18/2012 9:12:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/7/2012	Chloride	n/a	=	2400	mg/L	EPA 300.0	5	25	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/7/2012	Fluoride	n/a	=	0.69	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/1/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/25/2012 9:15:00 AM	E. Coli	n/a	=	1071	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/28/2012 1:40:00 PM	Fecal Coliform	n/a	=	3000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/25/2012 9:15:00 AM	Total Coliform	n/a	=	127400	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/4/2012	Calcium	Total	=	250	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/4/2012	Magnesium	Total	=	210	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/30/2012	Alkalinity as CaCO3	n/a	=	380	mg/L	SM 2320 B	0.56	10	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/30/2012	BOD	n/a	DNQ	1.6	mg/L	SM 5210 B	0.1	2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/1/2012	COD	n/a	=	38	mg/L	EPA 410.4	0.73	5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/24/2012 12:30:00 PM	Conductivity	n/a	=	5140	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/7/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/24/2012 12:30:00 PM	DO	n/a	=	7.31	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/24/2012 12:30:00 PM	DO	n/a	=	86.3	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/4/2012	Hardness as CaCO3	Total	=	1500	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/25/2012	MBAS	n/a	DNQ	0.042	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/24/2012 12:30:00 PM	pH	n/a	=	7.8	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Phenolics	n/a	=	0.025	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/24/2012 12:30:00 PM	Salinity	n/a	=	3200	mg/L	Field Meter	-88	100	Field Crew	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/24/2012 12:30:00 PM	Specific Conductance	n/a	=	5960	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/31/2012	Specific Conductance	n/a	=	11000	µmhos/cm	SM 2510 B	2.3	20	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/24/2012 12:30:00 PM	Temperature	n/a	=	23.8	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/30/2012	Total Dissolved Solids	n/a	=	4200	mg/L	SM 2540 C	4	10	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/4/2012	Total Organic Carbon	n/a	=	3.3	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/30/2012	Total Suspended Solids	n/a	=	21	mg/L	SM 2540 D	5	5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/25/2012	Turbidity	n/a	=	18	NTU	EPA 180.1	0.024	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/30/2012	Volatile Suspended Solids	n/a	=	7	mg/L	EPA 160.4	3.1	5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/4/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/4/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Aluminum	Dissolved	<	3	µg/L	EPA 200.8	3	25	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Aluminum	Total	=	34	µg/L	EPA 200.8	3	25	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Antimony	Dissolved	<	0.2	µg/L	EPA 200.8	0.2	2.5	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Antimony	Total	<	0.2	µg/L	EPA 200.8	0.2	2.5	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Arsenic	Dissolved	DNQ	1.9	µg/L	EPA 200.8	0.18	2	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Arsenic	Total	=	3.6	µg/L	EPA 200.8	0.18	2	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Cadmium	Dissolved	<	0.1	µg/L	EPA 200.8	0.1	0.5	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Cadmium	Total	DNQ	0.14	µg/L	EPA 200.8	0.1	0.5	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Chromium	Dissolved	<	0.37	µg/L	EPA 200.8	0.37	1	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Chromium	Total	<	0.37	µg/L	EPA 200.8	0.37	1	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Chromium VI	n/a	DNQ	0.18	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Copper	Dissolved	<	1.4	µg/L	EPA 200.8	1.4	2.5	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Copper	Total	DNQ	1.4	µg/L	EPA 200.8	1.4	2.5	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/4/2012	Iron	Dissolved	<	1.1	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/4/2012	Iron	Total	=	1900	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Lead	Dissolved	<	0.055	µg/L	EPA 200.8	0.055	1	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Lead	Total	DNQ	0.27	µg/L	EPA 200.8	0.055	1	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Mercury	Dissolved	DNQ	14	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Mercury	Total	DNQ	9	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Nickel	Dissolved	=	7.4	µg/L	EPA 200.8	0.65	4	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Nickel	Total	=	8.1	µg/L	EPA 200.8	0.65	4	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Selenium	Dissolved	DNQ	1.7	µg/L	EPA 200.8	1.4	2	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Selenium	Total	=	2.1	µg/L	EPA 200.8	1.4	2	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Silver	Dissolved	<	0.14	µg/L	EPA 200.8	0.14	1	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Silver	Total	<	0.14	µg/L	EPA 200.8	0.14	1	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Thallium	Dissolved	<	0.045	µg/L	EPA 200.8	0.045	1	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Thallium	Total	<	0.045	µg/L	EPA 200.8	0.045	1	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Zinc	Dissolved	<	5.6	µg/L	EPA 200.8	5.6	25	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/6/2012	Zinc	Total	<	5.6	µg/L	EPA 200.8	5.6	25	WKL	D
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Ammonia as N	n/a	=	0.68	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/25/2012	Nitrate + Nitrite as N	n/a	=	0.21	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/11/2012	Phosphorus as P	Dissolved	=	0.18	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/11/2012	Phosphorus as P	Total	=	0.56	mg/L	EPA 365.1	0.007	0.05	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	TKN	n/a	=	1.1	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Benzdine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Butyl phenyl phthalate	n/a	DNQ	0.66	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Diethyl phthalate	n/a	DNQ	0.36	µg/L	EPA 625	0.15	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Dimethyl phthalate	n/a	=	14	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Di-n-butylphthalate	n/a	DNQ	0.48	µg/L	EPA 625	0.24	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	5/29/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/5/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/8/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2011/12-4	Dry	5/24/2012 12:30:00 PM	6/2/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/6/2011 8:50:00 AM	E. Coli	n/a	=	198630	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/9/2011 12:40:00 PM	Fecal Coliform	n/a	=	500000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/6/2011 8:50:00 AM	Total Coliform	n/a	=	1203300	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/5/2011 8:00:00 AM	Conductivity	n/a	=	174.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/17/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/5/2011 8:00:00 AM	DO	n/a	=	109	%	Field Meter	-88	0.1	Field Crew	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/5/2011 8:00:00 AM	DO	n/a	=	10.57	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/5/2011 8:00:00 AM	pH	n/a	=	8.03	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/5/2011 8:00:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/5/2011 8:00:00 AM	Specific Conductance	n/a	=	209	µmhos/cm	Field Meter	-88	1	Field Crew	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/5/2011 8:00:00 AM	Temperature	n/a	=	16	°C	Field Meter	-88	0.1	Field Crew	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/7/2011	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-MEI	2011/12-1	Wet	10/5/2011 8:00:00 AM	10/7/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Chloride	n/a	=	22	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Fluoride	n/a	=	0.15	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/11/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/11/2011	Calcium	Total	=	32	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/11/2011	Magnesium	Total	=	17	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/17/2011	Alkalinity as CaCO3	n/a	=	86	mg/L	SM 2320 B	0.56	2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/14/2011	BOD	n/a	=	21	mg/L	SM 5210 B	0.1	2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/10/2011	COD	n/a	=	220	mg/L	EPA 410.4	0.73	5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/11/2011	Hardness as CaCO3	Total	=	150	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/7/2011	MBAS	n/a	=	0.094	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/17/2011	Phenolics	n/a	=	0.076	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	Specific Conductance	n/a	=	310	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Total Dissolved Solids	n/a	=	200	mg/L	SM 2540 C	4	10	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/26/2011	Total Organic Carbon	n/a	=	34	mg/L	SM 5310 C	0.09	3	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Total Suspended Solids	n/a	=	250	mg/L	SM 2540 D	5	5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/7/2011	Turbidity	n/a	=	170	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Volatile Suspended Solids	n/a	=	71	mg/L	EPA 160.4	3.1	5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Aluminum	Dissolved	=	50	µg/L	EPA 200.8	0.61	5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Aluminum	Total	=	3600	µg/L	EPA 200.8	6.1	50	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Antimony	Dissolved	=	0.57	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Antimony	Total	=	0.91	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Arsenic	Dissolved	=	1.6	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Arsenic	Total	=	3.6	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Beryllium	Total	=	0.2	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Cadmium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Cadmium	Total	=	0.31	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Chromium	Dissolved	=	0.71	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Chromium	Total	=	8.3	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/10/2011	Chromium VI	n/a	=	0.32	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Copper	Dissolved	=	7.2	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Copper	Total	=	24	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/11/2011	Iron	Dissolved	=	86	µg/L	EPA 200.7	1.1	10	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/11/2011	Iron	Total	=	5000	µg/L	EPA 200.7	1.1	10	WKL	GB
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Lead	Dissolved	=	1	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Lead	Total	=	13	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/10/2011	Mercury	Dissolved	DNQ	37	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/10/2011	Mercury	Total	DNQ	46	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Nickel	Dissolved	=	3.4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Nickel	Total	=	17	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Selenium	Total	=	0.43	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Silver	Total	DNQ	0.066	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Thallium	Total	DNQ	0.046	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Zinc	Dissolved	=	14	µg/L	EPA 200.8	1.1	5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/12/2011	Zinc	Total	=	130	µg/L	EPA 200.8	1.1	5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	Ammonia as N	n/a	=	0.89	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/20/2011	Nitrate + Nitrite as N	n/a	=	0.98	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Phosphorus as P	Dissolved	=	0.57	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Phosphorus as P	Total	=	1.2	mg/L	EPA 365.1	0.07	0.5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/17/2011	TKN	n/a	=	6.4	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	1,2,4-Trichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	1,2-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	1,2-Diphenylhydrazine	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	1,3-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	1,4-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	2,4-Dinitrotoluene	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	2,6-Dinitrotoluene	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	2-Chloronaphthalene	n/a	<	0.9	µg/L	EPA 625	0.9	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	3,3'-Dichlorobenzidine	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	4-Bromophenyl phenyl ether	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	4-Chlorophenyl phenyl ether	n/a	<	0.82	µg/L	EPA 625	0.82	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	Acenaphthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	Acenaphthylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	Anthracene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Benz(a)anthracene	n/a	<	2.8	µg/L	EPA 8270Cm	2.8	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Benzenzidine	n/a	<	7.3	µg/L	EPA 625	7.3	20	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Benzo(a)pyrene	n/a	<	0.14	µg/L	EPA 525.2	0.14	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	Benzo(b)fluoranthene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	Benzo(k)fluoranthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Bis(2-chloroethoxy)methane	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Bis(2-chloroethyl)ether	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.76	µg/L	EPA 625	0.76	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.21	µg/L	EPA 525.2	0.21	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Bis(2-ethylhexyl)phthalate	n/a	<	2.1	µg/L	EPA 525.2	2.1	6	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Butyl benzyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	Chrysene	n/a	<	0.9	µg/L	EPA 8270Cm	0.9	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Diethyl phthalate	n/a	=	2.7	µg/L	EPA 625	0.3	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Dimethyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Di-n-butylphthalate	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Di-n-octylphthalate	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Fluoranthene	n/a	<	2	µg/L	EPA 8270Cm	2	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	Fluorene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Hexachlorobenzene	n/a	<	0.98	µg/L	EPA 625	0.98	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Hexachlorobutadiene	n/a	<	0.94	µg/L	EPA 625	0.94	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Hexachlorocyclopentadiene	n/a	<	2.9	µg/L	EPA 625	2.9	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Hexachloroethane	n/a	<	1	µg/L	EPA 625	1	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Isophorone	n/a	<	0.42	µg/L	EPA 625	0.42	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	Naphthalene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	Nitrobenzene	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	N-Nitrosodimethylamine	n/a	<	0.28	µg/L	EPA 625	0.28	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	N-Nitrosodi-N-propylamine	n/a	<	0.52	µg/L	EPA 625	0.52	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/29/2011	N-Nitrosodiphenylamine	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	Phenanthrene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/24/2011	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Pyrene	n/a	<	2.1	µg/L	EPA 8270Cm	2.1	5	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	4,4'-DDE	n/a	DNQ	0.0034	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	4,4'-DDT	n/a	DNQ	0.0036	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Alachlor	n/a	<	0.044	µg/L	EPA 525.2	0.044	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Atrazine	n/a	<	0.068	µg/L	EPA 525.2	0.068	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Bromacil	n/a	<	0.076	µg/L	EPA 525.2	0.076	2	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Butachlor	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.4	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Captan	n/a	<	1.7	µg/L	EPA 525.2	1.7	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Chlorpropham	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Cyanazine	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Diphenamid	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	EPTC	n/a	<	0.034	µg/L	EPA 525.2	0.034	2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Fensulfathion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Glyphosate	n/a	=	46	µg/L	EPA 547	9	25	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Malathion	n/a	=	0.042	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Metolachlor	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Metribuzin	n/a	<	0.03	µg/L	EPA 525.2	0.03	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Molinate	n/a	<	0.078	µg/L	EPA 525.2	0.078	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	Pentachlorophenol	n/a	=	0.3	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/18/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Prometon	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.4	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Prometryn	n/a	<	0.072	µg/L	EPA 525.2	0.072	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Simazine	n/a	<	0.03	µg/L	EPA 525.2	0.03	0.2	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Terbacil	n/a	<	1.1	µg/L	EPA 525.2	1.1	4	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Thiobencarb	n/a	<	0.05	µg/L	EPA 525.2	0.05	0.4	WKL	D
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/25/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/19/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2011/12-1	Wet	10/6/2011 9:30:00 AM	10/21/2011	Trithion	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	D
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	72700	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/25/2012 9:10:00 AM	Fecal Coliform	n/a	=	90000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	241920	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/21/2012 3:50:00 AM	Conductivity	n/a	=	83.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/21/2012 3:50:00 AM	DO	n/a	=	9.77	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/21/2012 3:50:00 AM	DO	n/a	=	90	%	Field Meter	-88	0.1	Field Crew	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/21/2012 3:50:00 AM	pH	n/a	=	7.69	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/21/2012 3:50:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/21/2012 3:50:00 AM	Specific Conductance	n/a	=	112.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/21/2012 3:50:00 AM	Temperature	n/a	=	11.4	°C	Field Meter	-88	0.1	Field Crew	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/23/2012	Oil and Grease	n/a	DNQ	1.5	mg/L	EPA 1664A	1.3	5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/23/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 3:50:00 AM	1/23/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/28/2012	Chloride	n/a	=	13	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/28/2012	Fluoride	n/a	DNQ	0.082	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/24/2012	Calcium	Total	=	14	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/24/2012	Magnesium	Total	=	11	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Alkalinity as CaCO3	n/a	=	55	mg/L	SM 2320 B	0.56	2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/27/2012	BOD	n/a	=	37	mg/L	SM 5210 B	0.1	2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/26/2012	COD	n/a	=	180	mg/L	EPA 410.4	0.73	5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/24/2012	Hardness as CaCO3	Total	=	79	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/22/2012	MBAS	n/a	=	0.11	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Phenolics	n/a	=	0.05	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Specific Conductance	n/a	=	220	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/25/2012	Total Dissolved Solids	n/a	=	110	mg/L	SM 2540 C	4	10	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/26/2012	Total Organic Carbon	n/a	=	44	mg/L	SM 5310 C	0.18	6	WKL	D
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/26/2012	Total Suspended Solids	n/a	=	170	mg/L	SM 2540 D	5	5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/22/2012	Turbidity	n/a	=	19	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/26/2012	Volatile Suspended Solids	n/a	=	68	mg/L	EPA 160.4	3.1	5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Aluminum	Dissolved	=	44	µg/L	EPA 200.8	0.61	5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Aluminum	Total	=	2700	µg/L	EPA 200.8	0.61	5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Antimony	Dissolved	DNQ	0.45	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Antimony	Total	=	0.94	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.036	0.4	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Arsenic	Total	=	2.6	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Beryllium	Total	=	0.13	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Cadmium	Dissolved	DNQ	0.039	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Cadmium	Total	=	0.24	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Chromium	Dissolved	=	0.5	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Chromium	Total	=	5.8	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/23/2012	Chromium VI	n/a	DNQ	0.12	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Copper	Dissolved	=	12	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Copper	Total	=	25	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/24/2012	Iron	Dissolved	=	66	µg/L	EPA 200.7	1.1	10	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/24/2012	Iron	Total	=	3600	µg/L	EPA 200.7	1.1	10	WKL	GB
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Lead	Dissolved	=	1.3	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Lead	Total	=	10	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/25/2012	Mercury	Dissolved	DNQ	29	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/25/2012	Mercury	Total	DNQ	38	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Nickel	Dissolved	=	2.4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Nickel	Total	=	10	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Selenium	Total	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Silver	Total	DNQ	0.038	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Thallium	Total	DNQ	0.034	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Zinc	Dissolved	=	29	µg/L	EPA 200.8	1.1	5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Zinc	Total	=	100	µg/L	EPA 200.8	1.1	5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/27/2012	Ammonia as N	n/a	=	0.72	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/21/2012 5:30:00 PM	Nitrate + Nitrite as N	n/a	=	0.92	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Phosphorus as P	Dissolved	=	0.58	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Phosphorus as P	Total	=	0.87	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	TKN	n/a	=	2.4	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	3-/4-Methylphenol	n/a	DNQ	0.31	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Benzdine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2	µg/L	EPA 525.2	1.1	3	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Diethyl phthalate	n/a	=	1.8	µg/L	EPA 625	0.15	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Fluoranthene	n/a	DNQ	0.23	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Dimethoate	n/a	=	0.066	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/30/2012	Glyphosate	n/a	<	9	µg/L	EPA 547	9	25	WKL	D
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	Pentachlorophenol	n/a	=	0.2	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	EUM
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	2/2/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2011/12-2	Wet	1/21/2012 4:10:00 AM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/17/2012 6:20:00 AM	3/18/2012 7:00:00 AM	E. Coli	n/a	=	18500	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-MEI	2011/12-3	Wet	3/17/2012 6:20:00 AM	3/21/2012 11:08:00 AM	Fecal Coliform	n/a	=	50000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MEI	2011/12-3	Wet	3/17/2012 6:20:00 AM	3/18/2012 7:00:00 AM	Total Coliform	n/a	=	185000	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-MEI	2011/12-3	Wet	3/17/2012 6:20:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MEI	2011/12-3	Wet	3/17/2012 6:20:00 AM	3/20/2012	Oil and Grease	n/a	DNQ	3.1	mg/L	EPA 1664A	1.3	5	WKL	
MO-MEI	2011/12-3	Wet	3/17/2012 6:20:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MEI	2011/12-3	Wet	3/17/2012 6:20:00 AM	3/19/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-MEI	2011/12-3	Wet	3/17/2012 6:20:00 AM	3/19/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MEI	2011/12-3	Wet	3/17/2012 10:21:00 AM	3/17/2012 10:21:00 AM	Conductivity	n/a	=	214.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2011/12-3	Wet	3/17/2012 10:21:00 AM	3/17/2012 10:21:00 AM	DO	n/a	=	89.3	%	Field Meter	-88	0.1	Field Crew	
MO-MEI	2011/12-3	Wet	3/17/2012 10:21:00 AM	3/17/2012 10:21:00 AM	DO	n/a	=	9.49	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MEI	2011/12-3	Wet	3/17/2012 10:21:00 AM	3/17/2012 10:21:00 AM	pH	n/a	=	7.69	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MEI	2011/12-3	Wet	3/17/2012 10:21:00 AM	3/17/2012 10:21:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-MEI	2011/12-3	Wet	3/17/2012 10:21:00 AM	3/17/2012 10:21:00 AM	Specific Conductance	n/a	=	280.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2011/12-3	Wet	3/17/2012 10:21:00 AM	3/17/2012 10:21:00 AM	Temperature	n/a	=	12.7	°C	Field Meter	-88	0.1	Field Crew	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/21/2012	Chloride	n/a	=	14	mg/L	EPA 300.0	0.1	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/21/2012	Fluoride	n/a	=	0.13	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/23/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/26/2012	Calcium	Total	=	18	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/26/2012	Magnesium	Total	=	8.2	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	56	mg/L	SM 2320 B	0.56	2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	BOD	n/a	=	22	mg/L	SM 5210 B	0.1	2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/23/2012	COD	n/a	=	110	mg/L	EPA 410.4	0.73	5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/26/2012	Hardness as CaCO3	Total	=	78	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/19/2012	MBAS	n/a	=	0.056	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.14	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/29/2012	Phenolics	n/a	=	0.027	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/20/2012	Specific Conductance	n/a	=	190	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	120	mg/L	SM 2540 C	4	10	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/22/2012	Total Organic Carbon	n/a	=	16	mg/L	SM 5310 C	0.072	2.4	WKL	D
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/21/2012	Total Suspended Solids	n/a	=	270	mg/L	SM 2540 D	5	5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/19/2012	Turbidity	n/a	=	170	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/21/2012	Volatile Suspended Solids	n/a	=	47	mg/L	EPA 160.4	3.1	5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Aluminum	Dissolved	=	35	µg/L	EPA 200.8	0.61	5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Aluminum	Total	=	3800	µg/L	EPA 200.8	0.61	5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Antimony	Dissolved	DNQ	0.26	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Antimony	Total	DNQ	0.47	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Arsenic	Dissolved	=	1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Arsenic	Total	=	1.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Beryllium	Total	=	0.19	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Cadmium	Dissolved	DNQ	0.023	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Cadmium	Total	=	0.24	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Chromium	Dissolved	=	0.37	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Chromium	Total	=	9.7	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/20/2012	Chromium VI	n/a	DNQ	0.13	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Copper	Dissolved	=	5.1	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Copper	Total	=	17	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/26/2012	Iron	Dissolved	=	76	µg/L	EPA 200.7	1.1	10	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/26/2012	Iron	Total	=	5100	µg/L	EPA 200.7	1.1	10	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Lead	Dissolved	=	0.53	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Lead	Total	=	11	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/22/2012	Mercury	Dissolved	DNQ	31	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/22/2012	Mercury	Total	DNQ	44	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Nickel	Dissolved	=	2.3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Nickel	Total	=	20	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Selenium	Total	DNQ	0.29	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Silver	Total	DNQ	0.052	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Thallium	Total	DNQ	0.054	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Zinc	Dissolved	=	13	µg/L	EPA 200.8	1.1	5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/4/2012	Zinc	Total	=	81	µg/L	EPA 200.8	1.1	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/27/2012	Ammonia as N	n/a	=	0.16	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	0.25	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.32	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/30/2012	Phosphorus as P	Total	=	0.79	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/29/2012	TKN	n/a	=	2.7	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Benzenidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Diethyl phthalate	n/a	=	2.2	µg/L	EPA 625	0.15	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Di-n-butylphthalate	n/a	DNQ	0.56	µg/L	EPA 625	0.24	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Fluorene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/6/2012	N-Nitrosodiphenylamine	n/a	DNQ	0.25	µg/L	EPA 625	0.19	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/9/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	4,4'-DDT	n/a	DNQ	0.0036	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Chlorpyrifos	n/a	DNQ	0.008	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Dimethoate	n/a	=	0.028	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Fensulfthion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/19/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Malathion	n/a	=	0.012	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	Pentachlorophenol	n/a	DNQ	0.18	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/24/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Toxaphene	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2011/12-3	Wet	3/18/2012 7:55:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/1/2012	Chloride	n/a	=	180	mg/L	EPA 300.0	1	5	WKL	D
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/30/2012	Fluoride	n/a	=	0.33	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/25/2012 8:00:00 AM	E. Coli	n/a	=	1669	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/28/2012 11:16:00 AM	Fecal Coliform	n/a	=	1400	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/25/2012 8:00:00 AM	Total Coliform	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/30/2012	Calcium	Total	=	31	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/30/2012	Magnesium	Total	=	120	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/7/2012	Alkalinity as CaCO3	n/a	=	230	mg/L	SM 2320 B	0.56	2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/30/2012	BOD	n/a	=	3.3	mg/L	SM 5210 B	0.1	2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	COD	n/a	=	48	mg/L	EPA 410.4	0.73	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/24/2012 10:05:00 AM	Conductivity	n/a	=	1188	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/24/2012 10:05:00 AM	DO	n/a	=	190.5	%	Field Meter	-88	0.1	Field Crew	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/24/2012 10:05:00 AM	DO	n/a	=	17.72	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/30/2012	Hardness as CaCO3	Total	=	570	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/25/2012	MBAS	n/a	=	0.077	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/24/2012 10:05:00 AM	pH	n/a	=	9.86	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/1/2012	Phenolics	n/a	=	0.064	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/24/2012 10:05:00 AM	Salinity	n/a	=	700	mg/L	Field Meter	-88	100	Field Crew	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/24/2012 10:05:00 AM	Specific Conductance	n/a	=	1342	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/30/2012	Specific Conductance	n/a	=	1600	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/24/2012 10:05:00 AM	Temperature	n/a	=	19	°C	Field Meter	-88	0.1	Field Crew	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/30/2012	Total Dissolved Solids	n/a	=	820	mg/L	SM 2540 C	4	10	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Total Organic Carbon	n/a	=	15	mg/L	SM 5310 C	0.072	2.4	WKL	D
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/25/2012	Total Suspended Solids	n/a	=	11	mg/L	SM 2540 D	5	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/25/2012	Turbidity	n/a	=	5.6	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/25/2012	Volatile Suspended Solids	n/a	=	7	mg/L	EPA 160.4	3.1	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/25/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/25/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Aluminum	Dissolved	=	5.3	µg/L	EPA 200.8	0.61	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Aluminum	Total	=	110	µg/L	EPA 200.8	0.61	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Antimony	Dissolved	=	0.51	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Antimony	Total	=	0.52	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Arsenic	Dissolved	=	2.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Arsenic	Total	=	2.6	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Cadmium	Total	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Chromium	Dissolved	=	0.23	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Chromium	Total	=	0.42	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/26/2012	Chromium VI	n/a	DNQ	0.067	µg/L	EPA 218.6	0.0059	0.3	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Copper	Dissolved	=	6.6	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Copper	Total	=	7.1	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/30/2012	Iron	Dissolved	DNQ	9.3	µg/L	EPA 200.7	1.1	10	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/30/2012	Iron	Total	=	150	µg/L	EPA 200.7	1.1	10	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Lead	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Lead	Total	=	0.27	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/27/2012	Mercury	Dissolved	DNQ	16	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/27/2012	Mercury	Total	DNQ	21	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Nickel	Dissolved	=	3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Nickel	Total	=	3.4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Selenium	Dissolved	=	0.51	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Selenium	Total	=	0.48	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/4/2012	Silver	Dissolved	DNQ	0.092	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/4/2012	Silver	Total	DNQ	0.073	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Thallium	Total	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Zinc	Dissolved	=	6.7	µg/L	EPA 200.8	1.1	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Zinc	Total	=	6.4	µg/L	EPA 200.8	1.1	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Ammonia as N	n/a	=	0.15	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Nitrate + Nitrite as N	n/a	DNQ	0.041	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Phosphorus as P	Dissolved	=	0.045	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Phosphorus as P	Total	=	0.074	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/4/2012	TKN	n/a	=	2	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/26/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	IL
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Benzo(a)pyrene	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Diethyl phthalate	n/a	=	2.3	µg/L	EPA 625	0.15	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/26/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/8/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/10/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/11/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Dimethoate	n/a	=	0.014	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Fensulfthion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/27/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	Pentachlorophenol	n/a	DNQ	0.054	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	4/29/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Ronnel (Fenclorophos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/5/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/3/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2011/12-4	Dry	4/24/2012 10:05:00 AM	5/2/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/6/2011 7:30:00 AM	E. Coli	n/a	=	155310	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/7/2011 11:22:00 AM	Fecal Coliform	n/a	=	900000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/6/2011 7:30:00 AM	Total Coliform	n/a	=	2419200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/5/2011 8:30:00 AM	Conductivity	n/a	=	306.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/18/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/5/2011 8:30:00 AM	DO	n/a	=	6.76	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/5/2011 8:30:00 AM	DO	n/a	=	70.6	%	Field Meter	-88	0.1	Field Crew	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/5/2011 8:30:00 AM	pH	n/a	=	7.6	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/5/2011 8:30:00 AM	Salinity	n/a	=	200	mg/L	Field Meter	-88	100	Field Crew	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/5/2011 8:30:00 AM	Specific Conductance	n/a	=	352.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/5/2011 8:30:00 AM	Temperature	n/a	=	17	°C	Field Meter	-88	0.1	Field Crew	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/7/2011	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-MPK	2011/12-1	Wet	10/5/2011 8:30:00 AM	10/7/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Chloride	n/a	=	40	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Fluoride	n/a	=	0.26	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/11/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/11/2011	Calcium	Total	=	57	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/11/2011	Magnesium	Total	=	16	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/17/2011	Alkalinity as CaCO3	n/a	=	76	mg/L	SM 2320 B	0.56	2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/14/2011	BOD	n/a	=	15	mg/L	SM 5210 B	0.1	2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/10/2011	COD	n/a	=	210	mg/L	EPA 410.4	0.73	5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/11/2011	Hardness as CaCO3	Total	=	210	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/7/2011	MBAS	n/a	=	0.27	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/17/2011	Phenolics	n/a	=	0.097	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/18/2011	Specific Conductance	n/a	=	350	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Total Dissolved Solids	n/a	=	240	mg/L	SM 2540 C	4	10	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/26/2011	Total Organic Carbon	n/a	=	28	mg/L	SM 5310 C	0.09	3	WKL	D
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/10/2011	Total Suspended Solids	n/a	=	600	mg/L	SM 2540 D	5	5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/7/2011	Turbidity	n/a	=	230	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/10/2011	Volatile Suspended Solids	n/a	=	100	mg/L	EPA 160.4	3.1	5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Aluminum	Dissolved	=	50	µg/L	EPA 200.8	0.61	5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Aluminum	Total	=	11000	µg/L	EPA 200.8	6.1	50	WKL	D, GB
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Antimony	Dissolved	=	0.72	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Antimony	Total	=	0.96	µg/L	EPA 200.8	0.04	0.5	WKL	GB
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Arsenic	Dissolved	=	2.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Arsenic	Total	=	7.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Beryllium	Total	=	0.64	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Cadmium	Dissolved	DNQ	0.036	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Cadmium	Total	=	1.8	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Chromium	Dissolved	=	0.74	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Chromium	Total	=	23	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/10/2011	Chromium VI	n/a	=	0.42	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Copper	Dissolved	=	6.2	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Copper	Total	=	52	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/11/2011	Iron	Dissolved	=	120	µg/L	EPA 200.7	1.1	10	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/11/2011	Iron	Total	=	15000	µg/L	EPA 200.7	1.1	10	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Lead	Dissolved	=	0.35	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Lead	Total	=	26	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/10/2011	Mercury	Dissolved	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/10/2011	Mercury	Total	=	57	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Nickel	Dissolved	=	5	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Nickel	Total	=	31	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Selenium	Dissolved	=	0.77	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Selenium	Total	=	1	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Silver	Total	=	0.23	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Thallium	Total	=	0.22	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Zinc	Dissolved	=	11	µg/L	EPA 200.8	1.1	5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/12/2011	Zinc	Total	=	310	µg/L	EPA 200.8	1.1	5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/18/2011	Ammonia as N	n/a	=	1.3	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/20/2011	Nitrate + Nitrite as N	n/a	=	4	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Phosphorus as P	Dissolved	=	0.34	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Phosphorus as P	Total	=	2.2	mg/L	EPA 365.1	0.07	0.5	WKL	D
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/17/2011	TKN	n/a	=	7.8	mg/L	EPA 351.2	0.37	0.5	WKL	D
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	3-/4-Methylphenol	n/a	DNQ	0.43	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Benzo(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Benidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Butyl benzyl phthalate	n/a	DNQ	0.19	µg/L	EPA 625	0.18	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Diethyl phthalate	n/a	=	3.1	µg/L	EPA 625	0.15	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/29/2011	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	4,4'-DDE	n/a	DNQ	0.015	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	4,4'-DDT	n/a	DNQ	0.0086	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/27/2011	Bromacil	n/a	=	270	µg/L	EPA 525.2	3.8	100	WKL	D, H
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	DCPA (Dacthal)	n/a	=	0.52	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/18/2011	Glyphosate	n/a	=	66	µg/L	EPA 547	3.6	10	WKL	D
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Pentachlorophenol	n/a	=	1.2	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/25/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/19/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2011/12-1	Wet	10/6/2011 7:50:00 AM	10/21/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	23820	MPN/100 mL	MMO-MUG	100	100	VCHCA	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/25/2012 9:00:00 AM	Fecal Coliform	n/a	=	50000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	290900	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/21/2012 3:45:00 AM	Conductivity	n/a	=	195.2	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/21/2012 3:45:00 AM	DO	n/a	=	11.9	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/21/2012 3:45:00 AM	DO	n/a	=	114.5	%	Field Meter	-88	0.1	Field Crew	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/21/2012 3:45:00 AM	pH	n/a	=	7.84	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/21/2012 3:45:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/21/2012 3:45:00 AM	Specific Conductance	n/a	=	259.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/21/2012 3:45:00 AM	Temperature	n/a	=	12	°C	Field Meter	-88	0.1	Field Crew	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/23/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 3:45:00 AM	1/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/24/2012	Chloride	n/a	=	24	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/24/2012	Fluoride	n/a	=	0.22	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/23/2012	Calcium	Total	=	21	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/23/2012	Magnesium	Total	=	5.3	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Alkalinity as CaCO3	n/a	=	66	mg/L	SM 2320 B	0.56	10	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/27/2012	BOD	n/a	=	21	mg/L	SM 5210 B	0.1	2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/26/2012	COD	n/a	=	130	mg/L	EPA 410.4	0.73	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/23/2012	Hardness as CaCO3	Total	=	73	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/22/2012	MBAS	n/a	=	0.27	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Phenolics	n/a	=	0.03	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/24/2012	Specific Conductance	n/a	=	210	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/25/2012	Total Dissolved Solids	n/a	=	140	mg/L	SM 2540 C	4	10	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/26/2012	Total Organic Carbon	n/a	=	25	mg/L	SM 5310 C	0.09	3	WKL	D
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/24/2012	Total Suspended Solids	n/a	=	250	mg/L	SM 2540 D	5	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/22/2012	Turbidity	n/a	=	14	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/24/2012	Volatile Suspended Solids	n/a	=	43	mg/L	EPA 160.4	3.1	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Aluminum	Dissolved	=	35	µg/L	EPA 200.8	0.61	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Aluminum	Total	=	2300	µg/L	EPA 200.8	0.61	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Antimony	Dissolved	=	0.72	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Antimony	Total	=	0.91	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Arsenic	Dissolved	=	1.7	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Arsenic	Total	=	2.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Beryllium	Total	=	0.13	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Cadmium	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Cadmium	Total	=	0.4	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Chromium	Dissolved	=	1.5	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Chromium	Total	=	5.9	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/23/2012	Chromium VI	n/a	=	1.1	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Copper	Dissolved	=	17	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Copper	Total	=	18	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/23/2012	Iron	Dissolved	=	81	µg/L	EPA 200.7	1.1	10	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/23/2012	Iron	Total	=	3200	µg/L	EPA 200.7	1.1	10	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Lead	Dissolved	=	0.28	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Lead	Total	=	6.1	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/24/2012	Mercury	Dissolved	DNQ	17	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/24/2012	Mercury	Total	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Nickel	Dissolved	=	3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Nickel	Total	=	8.3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Selenium	Dissolved	DNQ	0.29	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Selenium	Total	DNQ	0.31	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Thallium	Total	DNQ	0.06	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Zinc	Dissolved	=	20	µg/L	EPA 200.8	1.1	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/28/2012	Zinc	Total	=	84	µg/L	EPA 200.8	1.1	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/27/2012	Ammonia as N	n/a	=	0.82	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/22/2012	Nitrate + Nitrite as N	n/a	=	2	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Phosphorus as P	Dissolved	=	0.52	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Phosphorus as P	Total	=	1.2	mg/L	EPA 365.1	0.035	0.25	WKL	D
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/2/2012	TKN	n/a	=	4	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	3-4-Methylphenol	n/a	DNQ	0.39	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Benzenzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.5	µg/L	EPA 525.2	1.1	3	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Diethyl phthalate	n/a	=	2.2	µg/L	EPA 625	0.15	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	4,4'-DDE	n/a	DNQ	0.016	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	4,4'-DDT	n/a	=	0.01	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Aldrin	n/a	=	0.046	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	alpha-Chlordane	n/a	DNQ	0.0061	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/23/2012	Glyphosate	n/a	=	280	µg/L	EPA 547	18	50	WKL	D
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Pentachlorophenol	n/a	DNQ	0.13	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	DNQ	0.0058	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2011/12-2	Wet	1/21/2012 10:30:00 AM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/18/2012 7:00:00 AM	E. Coli	n/a	=	98040	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/19/2012 11:26:00 AM	Fecal Coliform	n/a	=	90000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/18/2012 7:00:00 AM	Total Coliform	n/a	=	1986300	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/17/2012 8:25:00 AM	Conductivity	n/a	=	133.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/17/2012 8:25:00 AM	DO	n/a	=	87	%	Field Meter	-88	0.1	Field Crew	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/17/2012 8:25:00 AM	DO	n/a	=	9.13	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/17/2012 8:25:00 AM	pH	n/a	=	8.2	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/17/2012 8:25:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/17/2012 8:25:00 AM	Specific Conductance	n/a	=	171.9	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/17/2012 8:25:00 AM	Temperature	n/a	=	13	°C	Field Meter	-88	0.1	Field Crew	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/20/2012	Oil and Grease	n/a	DNQ	3.8	mg/L	EPA 1664A	1.3	5	WKL	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/20/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-MPK	2011/12-3	Wet	3/17/2012 8:25:00 AM	3/20/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/21/2012	Chloride	n/a	=	10	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/21/2012	Fluoride	n/a	=	0.23	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/27/2012	Calcium	Total	=	23	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/27/2012	Magnesium	Total	=	5.1	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	50	mg/L	SM 2320 B	0.56	2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	BOD	n/a	=	20	mg/L	SM 5210 B	0.1	2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	COD	n/a	=	100	mg/L	EPA 410.4	0.73	5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/27/2012	Hardness as CaCO3	Total	=	78	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/19/2012	MBAS	n/a	DNQ	0.029	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.37	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/29/2012	Phenolics	n/a	=	0.067	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/20/2012	Specific Conductance	n/a	=	190	µmhos/cm	SM 2510 B	0.23	2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	120	mg/L	SM 2540 C	4	10	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/22/2012	Total Organic Carbon	n/a	=	21	mg/L	SM 5310 C	0.09	3	WKL	D
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Total Suspended Solids	n/a	=	270	mg/L	SM 2540 D	5	5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/19/2012	Turbidity	n/a	=	180	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/23/2012	Volatile Suspended Solids	n/a	=	42	mg/L	EPA 160.4	3.1	5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Aluminum	Dissolved	=	32	µg/L	EPA 200.8	0.61	5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Aluminum	Total	=	4800	µg/L	EPA 200.8	0.61	5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Antimony	Dissolved	=	0.64	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Antimony	Total	=	0.86	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Arsenic	Dissolved	=	2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Arsenic	Total	=	3.6	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Beryllium	Total	=	0.29	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Cadmium	Dissolved	DNQ	0.072	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Cadmium	Total	=	0.72	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Chromium	Dissolved	=	1.3	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Chromium	Total	=	13	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/20/2012	Chromium VI	n/a	=	0.84	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Copper	Dissolved	=	7.5	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Copper	Total	=	23	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/27/2012	Iron	Dissolved	=	52	µg/L	EPA 200.7	1.1	10	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/27/2012	Iron	Total	=	6900	µg/L	EPA 200.7	1.1	10	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Lead	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Lead	Total	=	9.8	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/22/2012	Mercury	Dissolved	DNQ	37	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/22/2012	Mercury	Total	=	57	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Nickel	Dissolved	=	3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Nickel	Total	=	15	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Selenium	Dissolved	=	0.84	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Selenium	Total	=	0.95	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Silver	Dissolved	DNQ	0.053	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Silver	Total	DNQ	0.12	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Thallium	Total	DNQ	0.097	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Zinc	Dissolved	=	10	µg/L	EPA 200.8	1.1	5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/4/2012	Zinc	Total	=	100	µg/L	EPA 200.8	1.1	5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/27/2012	Ammonia as N	n/a	=	0.5	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	2	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.38	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/30/2012	Phosphorus as P	Total	=	0.96	mg/L	EPA 365.1	0.07	0.5	WKL	D
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/29/2012	TKN	n/a	=	0.31	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Benzenzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.6	µg/L	EPA 525.2	1.1	3	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Diethyl phthalate	n/a	=	2.1	µg/L	EPA 625	0.15	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Di-n-butylphthalate	n/a	DNQ	0.56	µg/L	EPA 625	0.24	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	4,4'-DDE	n/a	DNQ	0.0098	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	4,4'-DDT	n/a	DNQ	0.0057	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Bromacil	n/a	=	8.6	µg/L	EPA 525.2	0.038	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	EUM
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	DCPA (Dacthal)	n/a	=	0.24	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Fensulfotion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/19/2012	Glyphosate	n/a	=	29	µg/L	EPA 547	1.8	5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	Pentachlorophenol	n/a	=	0.95	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/24/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	4/3/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2011/12-3	Wet	3/18/2012 8:30:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/17/2012 6:48:00 AM	E. Coli	n/a	=	2909	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/17/2012 6:48:00 AM	Total Coliform	n/a	=	1046200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/24/2012	Calcium	Total	=	60	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/24/2012	Magnesium	Total	=	21	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/16/2012 8:10:00 AM	Conductivity	n/a	=	939	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/16/2012 8:10:00 AM	Discharge	n/a	=	0.02	cfs	Field Meter	-88	-88	Field Crew	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/16/2012 8:10:00 AM	DO	n/a	=	8.29	mg/L	Field Meter	-88	0.3	Field Crew	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/16/2012 8:10:00 AM	DO	n/a	=	88	%	Field Meter	-88	0.1	Field Crew	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/24/2012	Hardness as CaCO3	Total	=	240	mg/L	EPA 200.7	0.089	0.66	Field Crew	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/16/2012 8:10:00 AM	pH	n/a	=	8.48	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/16/2012 8:10:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/16/2012 8:10:00 AM	Specific Conductance	n/a	=	1091	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/16/2012 8:10:00 AM	Temperature	n/a	=	18.1	°C	Field Meter	-88	0.1	Field Crew	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/22/2012	Total Organic Carbon	n/a	=	21	mg/L	SM 5310 C	0.09	3	WKL	D
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/16/2012 8:10:00 AM	Turbidity	n/a	=	3.96	NTU	Field Meter	-88	0.01	Field Crew	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/24/2012	Copper	Dissolved	=	6.5	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/24/2012	Copper	Total	=	6.6	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/24/2012	Lead	Dissolved	DNQ	0.19	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/24/2012	Lead	Total	=	0.53	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/24/2012	Zinc	Dissolved	=	6.6	µg/L	EPA 200.8	1.1	5	WKL	
MO-MPK	2012-DRY	Dry	8/16/2012 8:10:00 AM	8/24/2012	Zinc	Total	=	9.1	µg/L	EPA 200.8	1.1	5	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	DCPA (Daacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Pentachlorophenol	n/a	DNQ	0.17	µg/L	EPA 515.3	0.04	0.2	WKL	
IPK Upstream	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	2,4-D	n/a	=	0.64	µg/L	EPA 515.3	0.07	0.4	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	DCPA (Daacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	Pentachlorophenol	n/a	DNQ	0.061	µg/L	EPA 515.3	0.04	0.2	WKL	
IPK Upstream	2011/12-2	Wet	1/21/2012 10:36:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/6/2011 8:50:00 AM	E. Coli	n/a	=	14136	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/8/2011 12:10:00 PM	Fecal Coliform	n/a	=	160000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/6/2011 8:50:00 AM	Total Coliform	n/a	=	141360	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/5/2011 9:00:00 AM	Conductivity	n/a	=	84.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/17/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/5/2011 9:00:00 AM	DO	n/a	=	10.6	mg/L	Field Meter	-88	0.3	Field Crew	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/5/2011 9:00:00 AM	DO	n/a	=	98.4	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/5/2011 9:00:00 AM	pH	n/a	=	7.48	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/5/2011 9:00:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/5/2011 9:00:00 AM	Specific Conductance	n/a	=	102.9	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/5/2011 9:00:00 AM	Temperature	n/a	=	16	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/6/2011	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-OJA	2011/12-1	Wet	10/5/2011 9:00:00 AM	10/6/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Chloride	n/a	=	35	mg/L	EPA 300.0	0.1	5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Fluoride	n/a	=	0.15	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/11/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/11/2011	Calcium	Total	=	46	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/11/2011	Magnesium	Total	=	11	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/17/2011	Alkalinity as CaCO3	n/a	=	85	mg/L	SM 2320 B	0.56	2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/14/2011	BOD	n/a	=	9.8	mg/L	SM 5210 B	0.1	2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/10/2011	COD	n/a	=	93	mg/L	EPA 410.4	0.73	5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/11/2011	Hardness as CaCO3	Total	=	160	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/7/2011	MBAS	n/a	=	0.28	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/17/2011	Phenolics	n/a	=	0.065	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	Specific Conductance	n/a	=	360	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Total Dissolved Solids	n/a	=	220	mg/L	SM 2540 C	4	10	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/26/2011	Total Organic Carbon	n/a	=	13	mg/L	SM 5310 C	0.072	2.4	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Total Suspended Solids	n/a	=	180	mg/L	SM 2540 D	5	5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/7/2011	Turbidity	n/a	=	100	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Volatile Suspended Solids	n/a	=	38	mg/L	EPA 160.4	3.1	5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Aluminum	Dissolved	=	31	µg/L	EPA 200.8	0.61	5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Aluminum	Total	=	2400	µg/L	EPA 200.8	6.1	50	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Antimony	Dissolved	DNQ	0.33	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Antimony	Total	=	0.75	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Arsenic	Dissolved	=	0.85	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Arsenic	Total	=	1.6	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Beryllium	Total	=	0.13	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Cadmium	Dissolved	DNQ	0.035	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Cadmium	Total	=	0.29	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Chromium	Dissolved	=	0.59	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Chromium	Total	=	4.9	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/10/2011	Chromium VI	n/a	DNQ	0.27	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Copper	Dissolved	=	4.2	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Copper	Total	=	20	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/11/2011	Iron	Dissolved	=	72	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/11/2011	Iron	Total	=	3800	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Lead	Dissolved	=	0.5	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Lead	Total	=	6.9	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/10/2011	Mercury	Dissolved	DNQ	26	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/10/2011	Mercury	Total	DNQ	36	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Nickel	Dissolved	=	2.3	µg/L	EPA 200.8	0.13	0.8	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Nickel	Total	=	8.9	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Selenium	Dissolved	=	0.6	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Selenium	Total	=	0.77	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Silver	Total	DNQ	0.072	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Thallium	Total	DNQ	0.037	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Zinc	Dissolved	=	26	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/12/2011	Zinc	Total	=	130	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	Ammonia as N	n/a	=	0.44	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/20/2011	Nitrate + Nitrite as N	n/a	=	0.58	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Phosphorus as P	Dissolved	=	0.31	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/14/2011	Phosphorus as P	Total	=	0.65	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/17/2011	TKN	n/a	=	2.3	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	1,2,4-Trichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	1,2-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	1,2-Diphenylhydrazine	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	1,3-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	1,4-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	2,4-Dinitrotoluene	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	2,6-Dinitrotoluene	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	2-Chloronaphthalene	n/a	<	0.9	µg/L	EPA 625	0.9	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	3,3'-Dichlorobenzidine	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	4-Bromophenyl phenyl ether	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	4-Chlorophenyl phenyl ether	n/a	<	0.82	µg/L	EPA 625	0.82	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	Acenaphthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	Acenaphthylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	Anthracene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Benz(a)anthracene	n/a	<	2.8	µg/L	EPA 8270Cm	2.8	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Benizdine	n/a	<	7.3	µg/L	EPA 625	7.3	20	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Benzo(a)pyrene	n/a	<	0.14	µg/L	EPA 525.2	0.14	0.2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	Benzo(b)fluoranthene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	Benzo(k)fluoranthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Bis(2-chloroethoxy)methane	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Bis(2-chloroethyl)ether	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.76	µg/L	EPA 625	0.76	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.21	µg/L	EPA 525.2	0.21	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.6	µg/L	EPA 525.2	2.1	6	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Butyl benzyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	Chrysene	n/a	<	0.9	µg/L	EPA 8270Cm	0.9	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Diethyl phthalate	n/a	DNQ	0.94	µg/L	EPA 625	0.3	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Dimethyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Di-n-butylphthalate	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Di-n-octylphthalate	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Fluoranthene	n/a	<	2	µg/L	EPA 8270Cm	2	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	Fluorene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Hexachlorobenzene	n/a	<	0.98	µg/L	EPA 625	0.98	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Hexachlorobutadiene	n/a	<	0.94	µg/L	EPA 625	0.94	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Hexachlorocyclopentadiene	n/a	<	2.9	µg/L	EPA 625	2.9	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Hexachloroethane	n/a	<	1	µg/L	EPA 625	1	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Isophorone	n/a	<	0.42	µg/L	EPA 625	0.42	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	Naphthalene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	Nitrobenzene	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	N-Nitrosodimethylamine	n/a	<	0.28	µg/L	EPA 625	0.28	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	N-Nitrosodi-N-propylamine	n/a	<	0.52	µg/L	EPA 625	0.52	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/29/2011	N-Nitrosodiphenylamine	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	Phenanthrene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/24/2011	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Pyrene	n/a	<	2.1	µg/L	EPA 8270Cm	2.1	5	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	4,4'-DDE	n/a	DNQ	0.0035	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	4,4'-DDT	n/a	DNQ	0.0032	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Alachlor	n/a	<	0.044	µg/L	EPA 525.2	0.044	0.2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Atrazine	n/a	<	0.068	µg/L	EPA 525.2	0.068	0.2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Bromacil	n/a	<	0.076	µg/L	EPA 525.2	0.076	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Butachlor	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.4	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Captan	n/a	<	1.7	µg/L	EPA 525.2	1.7	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Chlorpropham	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Chlorpyrifos	n/a	=	0.024	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Cyanazine	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Diphenamid	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	EPTC	n/a	<	0.034	µg/L	EPA 525.2	0.034	2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/17/2011	Glyphosate	n/a	=	7	µg/L	EPA 547	1.8	5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Metolachlor	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Metribuzin	n/a	<	0.03	µg/L	EPA 525.2	0.03	0.2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Molinate	n/a	<	0.078	µg/L	EPA 525.2	0.078	0.2	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	Pentachlorophenol	n/a	DNQ	0.098	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/18/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Prometon	n/a	<	0.048	µg/L	EPA 525.2	0.048	0.4	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Prometryn	n/a	<	0.072	µg/L	EPA 525.2	0.072	0.2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Simazine	n/a	<	0.03	µg/L	EPA 525.2	0.03	0.2	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Terbacil	n/a	<	1.1	µg/L	EPA 525.2	1.1	4	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Thiobencarb	n/a	<	0.05	µg/L	EPA 525.2	0.05	0.4	WKL	D
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/25/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/19/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2011/12-1	Wet	10/6/2011 8:55:00 AM	10/21/2011	Trithion	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	D
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/26/2012	Chloride	n/a	=	74	mg/L	EPA 300.0	1	5	WKL	D
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/26/2012	Fluoride	n/a	=	0.24	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	17329	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/25/2012 9:07:00 AM	Fecal Coliform	n/a	=	24000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	1153	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/24/2012	Calcium	Total	=	78	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/24/2012	Magnesium	Total	=	21	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Alkalinity as CaCO3	n/a	=	160	mg/L	SM 2320 B	0.56	10	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/27/2012	BOD	n/a	=	20	mg/L	SM 5210 B	0.1	2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/26/2012	COD	n/a	=	100	mg/L	EPA 410.4	0.73	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/21/2012 4:40:00 AM	Conductivity	n/a	=	62.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/21/2012 4:40:00 AM	DO	n/a	=	10.33	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/21/2012 4:40:00 AM	DO	n/a	=	96.5	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/24/2012	Hardness as CaCO3	Total	=	280	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/22/2012	MBAS	n/a	=	0.16	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/21/2012 4:40:00 AM	pH	n/a	=	7.73	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Phenolics	n/a	=	0.037	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/21/2012 4:40:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/21/2012 4:40:00 AM	Specific Conductance	n/a	=	82.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Specific Conductance	n/a	=	810	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/21/2012 4:40:00 AM	Temperature	n/a	=	11.9	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/25/2012	Total Dissolved Solids	n/a	=	420	mg/L	SM 2540 C	4	10	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/26/2012	Total Organic Carbon	n/a	=	17	mg/L	SM 5310 C	0.09	3	WKL	D
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/26/2012	Total Suspended Solids	n/a	=	130	mg/L	SM 2540 D	5	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/22/2012	Turbidity	n/a	=	10	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/26/2012	Volatile Suspended Solids	n/a	=	39	mg/L	EPA 160.4	3.1	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Aluminum	Dissolved	=	14	µg/L	EPA 200.8	0.61	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Aluminum	Total	=	1600	µg/L	EPA 200.8	0.61	5	WKL	GB
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Antimony	Dissolved	DNQ	0.22	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Antimony	Total	=	0.59	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Arsenic	Dissolved	=	0.81	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Arsenic	Total	=	1.5	µg/L	EPA 200.8	0.036	0.4	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Beryllium	Total	DNQ	0.089	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Cadmium	Dissolved	DNQ	0.046	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Cadmium	Total	=	0.2	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Chromium	Dissolved	=	0.3	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Chromium	Total	=	3.3	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/23/2012	Chromium VI	n/a	DNQ	0.072	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Copper	Dissolved	=	6.8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Copper	Total	=	15	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/24/2012	Iron	Dissolved	=	46	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/24/2012	Iron	Total	=	2500	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Lead	Dissolved	=	0.34	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Lead	Total	=	5.3	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/25/2012	Mercury	Dissolved	DNQ	19	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/25/2012	Mercury	Total	DNQ	33	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Nickel	Dissolved	=	2.5	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Nickel	Total	=	6.3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Selenium	Dissolved	=	1	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Selenium	Total	=	1.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Silver	Total	DNQ	0.049	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Thallium	Total	DNQ	0.026	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Zinc	Dissolved	=	29	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Zinc	Total	=	110	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/27/2012	Ammonia as N	n/a	=	0.33	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/21/2012 5:30:00 PM	Nitrate + Nitrite as N	n/a	=	0.66	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Phosphorus as P	Dissolved	=	0.28	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Phosphorus as P	Total	=	0.6	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/2/2012	TKN	n/a	=	1.3	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	3-/4-Methylphenol	n/a	DNQ	0.48	µg/L	EPA 8270Cm	0.3	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.5	µg/L	EPA 525.2	1.1	3	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Diethyl phthalate	n/a	DNQ	0.66	µg/L	EPA 625	0.15	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/23/2012	Glyphosate	n/a	=	5.1	µg/L	EPA 547	1.8	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	Pentachlorophenol	n/a	DNQ	0.17	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Ronnel (Fenclorophos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 4:40:00 AM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 5:00:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/23/2012	Oil and Grease	n/a	DNQ	2.7	mg/L	EPA 1664A	1.3	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/23/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-OJA	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/23/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OJA	2011/12-3	Wet	3/17/2012 5:30:00 AM	3/18/2012 7:00:00 AM	E. Coli	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OJA	2011/12-3	Wet	3/17/2012 5:30:00 AM	3/20/2012 10:43:00 AM	Fecal Coliform	n/a	=	30000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2011/12-3	Wet	3/17/2012 5:30:00 AM	3/18/2012 7:00:00 AM	Total Coliform	n/a	=	238200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OJA	2011/12-3	Wet	3/17/2012 5:30:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OJA	2011/12-3	Wet	3/17/2012 5:30:00 AM	3/20/2012	Oil and Grease	n/a	DNQ	2.1	mg/L	EPA 1664A	1.3	5	WKL	
MO-OJA	2011/12-3	Wet	3/17/2012 5:30:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OJA	2011/12-3	Wet	3/17/2012 5:30:00 AM	3/19/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-OJA	2011/12-3	Wet	3/17/2012 5:30:00 AM	3/19/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OJA	2011/12-3	Wet	3/17/2012 10:48:00 AM	3/17/2012 10:48:00 AM	Conductivity	n/a	=	157.2	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2011/12-3	Wet	3/17/2012 10:48:00 AM	3/17/2012 10:48:00 AM	DO	n/a	=	96.5	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2011/12-3	Wet	3/17/2012 10:48:00 AM	3/17/2012 10:48:00 AM	DO	n/a	=	10.19	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2011/12-3	Wet	3/17/2012 10:48:00 AM	3/17/2012 10:48:00 AM	pH	n/a	=	7.96	pH Units	Field Meter	-88	0.01	Field Crew	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-3	Wet	3/17/2012 10:48:00 AM	3/17/2012 10:48:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-OJA	2011/12-3	Wet	3/17/2012 10:48:00 AM	3/17/2012 10:48:00 AM	Specific Conductance	n/a	=	221.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2011/12-3	Wet	3/17/2012 10:48:00 AM	3/17/2012 10:48:00 AM	Temperature	n/a	=	12.9	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/21/2012	Chloride	n/a	=	6.1	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/21/2012	Fluoride	n/a	=	0.14	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/26/2012	Calcium	Total	=	15	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/26/2012	Magnesium	Total	=	2.9	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	43	mg/L	SM 2320 B	0.56	2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/24/2012	BOD	n/a	=	39	mg/L	SM 5210 B	0.1	2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	COD	n/a	=	70	mg/L	EPA 410.4	0.73	5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/26/2012	Hardness as CaCO3	Total	=	50	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/19/2012	MBAS	n/a	=	0.12	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.1	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/29/2012	Phenolics	n/a	=	0.024	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/20/2012	Specific Conductance	n/a	=	120	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	73	mg/L	SM 2540 C	4	10	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/22/2012	Total Organic Carbon	n/a	=	13	mg/L	SM 5310 C	0.072	2.4	WKL	D
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/21/2012	Total Suspended Solids	n/a	=	110	mg/L	SM 2540 D	5	5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/19/2012	Turbidity	n/a	=	82	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/21/2012	Volatile Suspended Solids	n/a	=	21	mg/L	EPA 160.4	3.1	5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Aluminum	Dissolved	=	34	µg/L	EPA 200.8	0.61	5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Aluminum	Total	=	1500	µg/L	EPA 200.8	0.61	5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Antimony	Dissolved	DNQ	0.23	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Antimony	Total	DNQ	0.42	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Arsenic	Dissolved	=	0.97	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Arsenic	Total	=	1.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Beryllium	Total	DNQ	0.092	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Cadmium	Dissolved	DNQ	0.031	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Cadmium	Total	=	0.22	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Chromium	Dissolved	=	0.27	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Chromium	Total	=	2.6	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/20/2012	Chromium VI	n/a	DNQ	0.076	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Copper	Dissolved	=	5.9	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Copper	Total	=	13	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/26/2012	Iron	Dissolved	=	62	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/26/2012	Iron	Total	=	1900	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Lead	Dissolved	=	0.35	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Lead	Total	=	4.7	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/22/2012	Mercury	Dissolved	DNQ	30	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/22/2012	Mercury	Total	DNQ	39	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Nickel	Dissolved	=	1.3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Nickel	Total	=	4.7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Selenium	Total	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Thallium	Total	DNQ	0.021	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Zinc	Dissolved	=	16	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/4/2012	Zinc	Total	=	64	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/27/2012	Ammonia as N	n/a	=	0.35	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	0.28	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.23	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/30/2012	Phosphorus as P	Total	=	0.47	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/29/2012	TKN	n/a	=	1.8	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Benzenzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Chrysene	n/a	DNQ	0.11	µg/L	EPA 8270Cm	0.09	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Diethyl phthalate	n/a	DNQ	0.99	µg/L	EPA 625	0.15	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Fluoranthene	n/a	DNQ	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Phenanthrene	n/a	DNQ	0.13	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/9/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Demeton-O	n/a	=	0.015	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Demeton-S	n/a	=	0.015	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Dimethoate	n/a	=	0.021	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Fensulfthion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/19/2012	Glyphosate	n/a	DNQ	2.2	µg/L	EPA 547	1.8	5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	Pentachlorophenol	n/a	=	0.27	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/23/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Ronnel (Fenclorophos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Simazine	n/a	=	1.1	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2011/12-3	Wet	3/18/2012 7:35:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/1/2012	Chloride	n/a	=	180	mg/L	EPA 300.0	1	5	WKL	D
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/30/2012	Fluoride	n/a	=	0.66	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/30/2012	Calcium	Total	=	180	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/30/2012	Magnesium	Total	=	61	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/7/2012	Alkalinity as CaCO3	n/a	=	400	mg/L	SM 2320 B	0.56	2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/30/2012	BOD	n/a	DNQ	1.8	mg/L	SM 5210 B	0.1	2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	COD	n/a	=	7.2	mg/L	EPA 410.4	0.73	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/30/2012	Hardness as CaCO3	Total	=	700	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/25/2012	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/1/2012	Phenolics	n/a	=	0.037	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/30/2012	Specific Conductance	n/a	=	2000	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/30/2012	Total Dissolved Solids	n/a	=	940	mg/L	SM 2540 C	4	10	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Total Organic Carbon	n/a	=	2.7	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/25/2012	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/25/2012	Turbidity	n/a	=	1.2	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/25/2012	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Aluminum	Dissolved	DNQ	1.7	µg/L	EPA 200.8	0.61	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Aluminum	Total	=	11	µg/L	EPA 200.8	0.61	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Antimony	Dissolved	DNQ	0.09	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Antimony	Total	DNQ	0.11	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Arsenic	Dissolved	=	0.59	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Arsenic	Total	=	0.65	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Cadmium	Total	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Chromium	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Chromium	Total	DNQ	0.12	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/26/2012	Chromium VI	n/a	DNQ	0.061	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Copper	Dissolved	=	1.6	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Copper	Total	=	2.3	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/30/2012	Iron	Dissolved	DNQ	1.8	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/30/2012	Iron	Total	=	11	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Lead	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Lead	Total	DNQ	0.05	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/27/2012	Mercury	Dissolved	DNQ	15	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/27/2012	Mercury	Total	DNQ	17	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Nickel	Dissolved	=	1	µg/L	EPA 200.8	0.13	0.8	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Nickel	Total	=	1	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Selenium	Dissolved	=	1.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Selenium	Total	=	1.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/4/2012	Silver	Dissolved	DNQ	0.076	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/4/2012	Silver	Total	DNQ	0.15	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Thallium	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Thallium	Total	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Zinc	Dissolved	=	5.1	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Zinc	Total	DNQ	4.6	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Nitrate + Nitrite as N	n/a	=	2	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Phosphorus as P	Dissolved	=	0.019	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Phosphorus as P	Total	=	0.022	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/4/2012	TKN	n/a	DNQ	0.093	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	IL
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Benidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Diethyl phthalate	n/a	=	1.2	µg/L	EPA 625	0.15	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/8/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/10/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/11/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	GB, IL

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	IL
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/27/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	4/29/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	GB
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/5/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/3/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:00:00 AM	5/2/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/25/2012 8:00:00 AM	E. Coli	n/a	=	43520	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/26/2012 1:35:00 PM	Fecal Coliform	n/a	=	30000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/25/2012 8:00:00 AM	Total Coliform	n/a	=	365400	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/24/2012 9:10:00 AM	Conductivity	n/a	=	1565	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	5/8/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/24/2012 9:10:00 AM	DO	n/a	=	14.05	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/24/2012 9:10:00 AM	DO	n/a	=	146	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/24/2012 9:10:00 AM	pH	n/a	=	8	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/24/2012 9:10:00 AM	Salinity	n/a	=	900	mg/L	Field Meter	-88	100	Field Crew	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/24/2012 9:10:00 AM	Specific Conductance	n/a	=	1833	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/24/2012 9:10:00 AM	Temperature	n/a	=	17.3	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/25/2012	Oil and Grease	n/a	DNQ	1.7	mg/L	EPA 1664A	1.3	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/25/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/26/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	IL
MO-OJA	2011/12-4	Dry	4/24/2012 9:10:00 AM	4/26/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/16/2012 8:35:00 AM	E. Coli	n/a	=	650	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/16/2012 8:35:00 AM	Total Coliform	n/a	=	32800	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/24/2012	Calcium	Total	=	110	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/24/2012	Magnesium	Total	=	74	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/15/2012 7:50:00 AM	Conductivity	n/a	=	1581	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/15/2012 7:50:00 AM	Discharge	n/a	=	0.03	cfs	Field Meter	-88	-88	Field Crew	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/15/2012 7:50:00 AM	DO	n/a	=	111.5	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/15/2012 7:50:00 AM	DO	n/a	=	10.07	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/24/2012	Hardness as CaCO3	Total	=	580	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/15/2012 7:50:00 AM	pH	n/a	=	8.19	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/15/2012 7:50:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/15/2012 7:50:00 AM	Specific Conductance	n/a	=	1738	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/15/2012 7:50:00 AM	Temperature	n/a	=	20.2	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/22/2012	Total Organic Carbon	n/a	=	3.3	mg/L	SM 5310 C	0.018	0.6	WKL	D
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/15/2012 7:50:00 AM	Turbidity	n/a	=	0.86	NTU	Field Meter	-88	0.01	Field Crew	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/24/2012	Copper	Dissolved	=	0.67	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/24/2012	Copper	Total	=	1.9	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/24/2012	Lead	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/24/2012	Lead	Total	=	0.89	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/24/2012	Zinc	Dissolved	DNQ	2.7	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2012-DRY	Dry	8/15/2012 7:50:00 AM	8/24/2012	Zinc	Total	=	13	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/6/2011 9:35:00 AM	E. Coli	n/a	=	19863	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/9/2011 12:40:00 PM	Fecal Coliform	n/a	=	22000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/6/2011 9:35:00 AM	Total Coliform	n/a	=	198630	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/5/2011 6:55:00 AM	Conductivity	n/a	=	242	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/18/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/5/2011 6:55:00 AM	DO	n/a	=	6.98	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/5/2011 6:55:00 AM	DO	n/a	=	72	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/5/2011 6:55:00 AM	pH	n/a	=	7.13	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/5/2011 6:55:00 AM	Temperature	n/a	=	17.8	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/11/2011	2-Chloroethyl vinyl ether	n/a	<	6.1	µg/L	EPA 524.2	6.1	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 6:55:00 AM	10/11/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.9	µg/L	EPA 524.2	1.9	20	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/11/2011	Chloride	n/a	=	13	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/11/2011	Fluoride	n/a	=	0.24	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/10/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Calcium	Total	=	18	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Magnesium	Total	=	5.7	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/17/2011	Alkalinity as CaCO3	n/a	=	110	mg/L	SM 2320 B	0.56	2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	BOD	n/a	=	19	mg/L	SM 5210 B	0.1	2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/10/2011	COD	n/a	=	130	mg/L	EPA 410.4	0.73	5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Hardness as CaCO3	Total	=	68	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/6/2011	MBAS	n/a	=	0.46	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/17/2011	Phenolics	n/a	=	0.057	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/17/2011	Specific Conductance	n/a	=	260	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/10/2011	Total Dissolved Solids	n/a	=	130	mg/L	SM 2540 C	4	10	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/26/2011	Total Organic Carbon	n/a	=	20	mg/L	SM 5310 C	0.09	3	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/10/2011	Total Suspended Solids	n/a	=	620	mg/L	SM 2540 D	5	5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/6/2011	Turbidity	n/a	=	49	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/10/2011	Volatile Suspended Solids	n/a	=	180	mg/L	EPA 160.4	3.1	5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Aluminum	Dissolved	=	43	µg/L	EPA 200.8	0.61	5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Aluminum	Total	=	2600	µg/L	EPA 200.8	6.1	50	WKL	D, GB
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Antimony	Dissolved	=	1.2	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Antimony	Total	=	3	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Arsenic	Dissolved	=	0.96	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Arsenic	Total	=	2.8	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/18/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/18/2011	Beryllium	Total	=	0.14	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Cadmium	Dissolved	DNQ	0.055	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Cadmium	Total	=	0.67	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Chromium	Dissolved	=	1.4	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Chromium	Total	=	8.4	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/6/2011	Chromium VI	n/a	=	0.92	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Copper	Dissolved	=	16	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Copper	Total	=	98	µg/L	EPA 200.8	0.27	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Iron	Dissolved	=	100	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Iron	Total	=	4900	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Lead	Dissolved	=	1.4	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Lead	Total	=	32	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/10/2011	Mercury	Dissolved	DNQ	27	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/10/2011	Mercury	Total	DNQ	44	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Nickel	Dissolved	=	4.8	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Nickel	Total	=	12	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Selenium	Dissolved	DNQ	0.32	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Selenium	Total	=	0.59	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Silver	Total	DNQ	0.12	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Thallium	Total	DNQ	0.055	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Zinc	Dissolved	=	50	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Zinc	Total	=	370	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/12/2011	Ammonia as N	n/a	=	0.71	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/18/2011	Nitrate + Nitrite as N	n/a	=	1.4	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/19/2011	Phosphorus as P	Dissolved	=	0.22	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/14/2011	Phosphorus as P	Total	=	0.95	mg/L	EPA 365.1	0.035	0.25	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/17/2011	TKN	n/a	=	3.7	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	Acenaphthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	Acenaphthylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	Anthracene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Benz(a)anthracene	n/a	<	2.8	µg/L	EPA 8270Cm	2.8	5	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Benizidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Benzo(b)fluoranthene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	Benzo(k)fluoranthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Chrysene	n/a	<	0.9	µg/L	EPA 8270Cm	0.9	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Fluoranthene	n/a	<	2	µg/L	EPA 8270Cm	2	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	Fluorene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	Naphthalene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	Phenanthrene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/24/2011	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Pyrene	n/a	<	2.1	µg/L	EPA 8270Cm	2.1	5	WKL	D
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	2,4-DB	n/a	=	2.9	µg/L	EPA 515.3	0.07	2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	4,4'-DDE	n/a	DNQ	0.0087	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	4,4'-DDT	n/a	DNQ	0.0055	µg/L	EPA 608	0.0031	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM, IL
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Diazinon	n/a	=	0.039	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/10/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Malathion	n/a	=	0.43	µg/L	EPA 525.2	0.0076	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	Pentachlorophenol	n/a	DNQ	0.073	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/13/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/25/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/20/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2011/12-1	Wet	10/5/2011 2:05:00 PM	10/27/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	3448	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/23/2012 8:32:00 AM	Fecal Coliform	n/a	=	1700	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	218700	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/21/2012 1:50:00 AM	Conductivity	n/a	=	223	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/21/2012 1:50:00 AM	DO	n/a	=	68	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/21/2012 1:50:00 AM	DO	n/a	=	7.05	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/21/2012 1:50:00 AM	pH	n/a	=	7.3	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/21/2012 1:50:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/21/2012 1:50:00 AM	Specific Conductance	n/a	=	281.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/21/2012 1:50:00 AM	Temperature	n/a	=	13.5	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/23/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 1:50:00 AM	1/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/26/2012	Chloride	n/a	=	8.2	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/26/2012	Fluoride	n/a	=	0.18	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/24/2012	Calcium	Total	=	12	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/24/2012	Magnesium	Total	=	3.1	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Alkalinity as CaCO3	n/a	=	28	mg/L	SM 2320 B	0.56	2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/27/2012	BOD	n/a	=	7.6	mg/L	SM 5210 B	0.1	2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/26/2012	COD	n/a	=	89	mg/L	EPA 410.4	0.73	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/24/2012	Hardness as CaCO3	Total	=	43	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/22/2012	MBAS	n/a	=	0.31	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Phenolics	n/a	=	0.021	mg/L	EPA 420.4	0.0042	0.01	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Specific Conductance	n/a	=	150	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/25/2012	Total Dissolved Solids	n/a	=	86	mg/L	SM 2540 C	4	10	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/26/2012	Total Organic Carbon	n/a	=	19	mg/L	SM 5310 C	0.09	3	WKL	D
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/26/2012	Total Suspended Solids	n/a	=	64	mg/L	SM 2540 D	5	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/22/2012	Turbidity	n/a	=	11	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/26/2012	Volatile Suspended Solids	n/a	=	19	mg/L	EPA 160.4	3.1	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Aluminum	Dissolved	=	24	µg/L	EPA 200.8	0.61	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Aluminum	Total	=	970	µg/L	EPA 200.8	0.61	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Antimony	Dissolved	=	0.93	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Antimony	Total	=	1.7	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Arsenic	Dissolved	=	0.85	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Arsenic	Total	=	1.3	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Cadmium	Dissolved	DNQ	0.045	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Cadmium	Total	=	0.19	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Chromium	Dissolved	=	0.76	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Chromium	Total	=	2.8	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/23/2012	Chromium VI	n/a	DNQ	0.29	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Copper	Dissolved	=	13	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Copper	Total	=	36	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/24/2012	Iron	Dissolved	=	62	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/24/2012	Iron	Total	=	1600	µg/L	EPA 200.7	1.1	10	WKL	GB
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Lead	Dissolved	=	0.41	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Lead	Total	=	6.1	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/25/2012	Mercury	Dissolved	DNQ	21	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/25/2012	Mercury	Total	DNQ	30	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Nickel	Dissolved	=	3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Nickel	Total	=	5.7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Selenium	Total	=	0.49	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Silver	Total	DNQ	0.031	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Thallium	Total	DNQ	0.019	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Zinc	Dissolved	=	48	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Zinc	Total	=	120	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/27/2012	Ammonia as N	n/a	=	0.86	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/21/2012 5:30:00 PM	Nitrate + Nitrite as N	n/a	=	0.88	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Phosphorus as P	Dissolved	=	0.25	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Phosphorus as P	Total	=	0.41	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/2/2012	TKN	n/a	=	2	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Benzo(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Benzenzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	=	3.8	µg/L	EPA 525.2	1.1	3	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Butyl benzyl phthalate	n/a	DNQ	0.45	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Diethyl phthalate	n/a	DNQ	0.77	µg/L	EPA 625	0.15	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	4,4'-DDE	n/a	DNQ	0.009	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Diazinon	n/a	DNQ	0.0066	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Glyphosate	n/a	<	9	µg/L	EPA 547	9	25	WKL	D
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	Pentachlorophenol	n/a	DNQ	0.06	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2011/12-2	Wet	1/21/2012 8:30:00 AM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/18/2012 6:30:00 AM	E. Coli	n/a	=	860	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/20/2012 10:40:00 AM	Fecal Coliform	n/a	=	3000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/18/2012 6:30:00 AM	Total Coliform	n/a	=	325500	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/17/2012 5:00:00 AM	Conductivity	n/a	=	540	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/17/2012 5:00:00 AM	DO	n/a	=	73.5	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/17/2012 5:00:00 AM	DO	n/a	=	6.85	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/17/2012 5:00:00 AM	pH	n/a	=	7.36	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/17/2012 5:00:00 AM	Salinity	n/a	=	300	mg/L	Field Meter	-88	100	Field Crew	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/17/2012 5:00:00 AM	Specific Conductance	n/a	=	641	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/17/2012 5:00:00 AM	Temperature	n/a	=	14.2	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/20/2012	Oil and Grease	n/a	=	6.4	mg/L	EPA 1664A	1.3	5	WKL	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/19/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-OXN	2011/12-3	Wet	3/17/2012 5:00:00 AM	3/19/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/21/2012	Chloride	n/a	=	12	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/21/2012	Fluoride	n/a	=	0.18	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/27/2012	Calcium	Total	=	17	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/27/2012	Magnesium	Total	=	3.6	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	29	mg/L	SM 2320 B	0.56	2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	BOD	n/a	=	14	mg/L	SM 5210 B	0.1	2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/23/2012	COD	n/a	=	95	mg/L	EPA 410.4	0.73	5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/27/2012	Hardness as CaCO3	Total	=	58	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/19/2012	MBAS	n/a	=	0.33	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.14	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/29/2012	Phenolics	n/a	=	0.035	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/20/2012	Specific Conductance	n/a	=	140	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	86	mg/L	SM 2540 C	4	10	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/22/2012	Total Organic Carbon	n/a	=	15	mg/L	SM 5310 C	0.072	2.4	WKL	D
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/23/2012	Total Suspended Solids	n/a	=	99	mg/L	SM 2540 D	5	5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/19/2012	Turbidity	n/a	=	51	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/23/2012	Volatile Suspended Solids	n/a	=	32	mg/L	EPA 160.4	3.1	5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Aluminum	Dissolved	=	25	µg/L	EPA 200.8	0.61	5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Aluminum	Total	=	1900	µg/L	EPA 200.8	0.61	5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Antimony	Dissolved	=	1.1	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Antimony	Total	=	2.5	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Arsenic	Dissolved	=	0.8	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Arsenic	Total	=	1.8	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Beryllium	Total	DNQ	0.09	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Cadmium	Dissolved	DNQ	0.081	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Cadmium	Total	=	0.44	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Chromium	Dissolved	=	1.2	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Chromium	Total	=	5.8	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/20/2012	Chromium VI	n/a	=	0.7	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Copper	Dissolved	=	13	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Copper	Total	=	88	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/27/2012	Iron	Dissolved	=	58	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/27/2012	Iron	Total	=	3300	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Lead	Dissolved	=	0.39	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Lead	Total	=	17	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/22/2012	Mercury	Dissolved	DNQ	32	ng/L	EPA 245.1	3.9	50	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/22/2012	Mercury	Total	=	51	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Nickel	Dissolved	=	3.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Nickel	Total	=	8.6	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Selenium	Dissolved	DNQ	0.38	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Selenium	Total	=	0.54	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Silver	Total	DNQ	0.088	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Thallium	Total	DNQ	0.037	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Zinc	Dissolved	=	52	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/4/2012	Zinc	Total	=	240	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/27/2012	Ammonia as N	n/a	=	0.63	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	0.6	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.2	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/30/2012	Phosphorus as P	Total	=	0.54	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/29/2012	TKN	n/a	=	2.2	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Benididine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.4	µg/L	EPA 525.2	1.1	3	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Butyl benzyl phthalate	n/a	=	1.1	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Diethyl phthalate	n/a	DNQ	0.73	µg/L	EPA 625	0.15	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Di-n-butylphthalate	n/a	DNQ	0.48	µg/L	EPA 625	0.24	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	4,4'-DDT	n/a	DNQ	0.0095	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	EUM
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Ethioprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/19/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	Pentachlorophenol	n/a	DNQ	0.14	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/24/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Toxothion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	4/3/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2011/12-3	Wet	3/18/2012 7:45:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Chloride	n/a	=	93	mg/L	EPA 300.0	1	5	WKL	D
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Fluoride	n/a	=	1.2	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/25/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/23/2012 9:00:00 AM	E. Coli	n/a	<	10	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/26/2012 12:53:00 PM	Fecal Coliform	n/a	=	2	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/23/2012 9:00:00 AM	Total Coliform	n/a	=	20	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/1/2012	Calcium	Total	=	38	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/1/2012	Magnesium	Total	=	17	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Alkalinity as CaCO3	n/a	=	110	mg/L	SM 2320 B	0.56	10	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	BOD	n/a	=	2.6	mg/L	SM 5210 B	0.1	2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/24/2012	COD	n/a	=	57	mg/L	EPA 410.4	0.73	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/22/2012 11:05:00 AM	Conductivity	n/a	=	1328	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/7/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/22/2012 11:05:00 AM	DO	n/a	=	193.2	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/22/2012 11:05:00 AM	DO	n/a	=	13.77	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/1/2012	Hardness as CaCO3	Total	=	170	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/23/2012	MBAS	n/a	=	0.16	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/22/2012 11:05:00 AM	pH	n/a	=	8.87	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	Phenolics	n/a	=	0.078	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/22/2012 11:05:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/25/2012	Specific Conductance	n/a	=	1200	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/22/2012 11:05:00 AM	Specific Conductance	n/a	=	1150	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/22/2012 11:05:00 AM	Temperature	n/a	=	32.9	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/25/2012	Total Dissolved Solids	n/a	=	690	mg/L	SM 2540 C	4	10	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/1/2012	Total Organic Carbon	n/a	=	14	mg/L	SM 5310 C	0.09	3	WKL	D
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/24/2012	Total Suspended Solids	n/a	=	90	mg/L	SM 2540 D	5	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/23/2012	Turbidity	n/a	=	14	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/24/2012	Volatile Suspended Solids	n/a	=	58	mg/L	EPA 160.4	3.1	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Oil and Grease	n/a	DNQ	1.5	mg/L	EPA 1664A	1.3	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Aluminum	Dissolved	DNQ	1.4	µg/L	EPA 200.8	0.61	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Aluminum	Total	=	73	µg/L	EPA 200.8	0.61	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Antimony	Dissolved	=	0.57	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Antimony	Total	=	0.59	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Arsenic	Total	=	1.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Cadmium	Dissolved	DNQ	0.028	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Cadmium	Total	DNQ	0.046	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Chromium	Dissolved	DNQ	0.14	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Chromium	Total	=	0.32	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/1/2012	Chromium VI	n/a	DNQ	0.15	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Copper	Dissolved	=	11	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Copper	Total	=	17	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/1/2012	Iron	Dissolved	<	1.1	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/1/2012	Iron	Total	=	82	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Lead	Dissolved	DNQ	0.039	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Lead	Total	=	0.46	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Mercury	Dissolved	DNQ	13	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Mercury	Total	DNQ	17	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Nickel	Dissolved	=	1.1	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Nickel	Total	=	1.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Selenium	Dissolved	=	1.1	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Selenium	Total	=	1.1	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Thallium	Total	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Zinc	Dissolved	DNQ	2.8	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Zinc	Total	=	6	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/5/2012	Ammonia as N	n/a	=	0.13	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/23/2012	Nitrate + Nitrite as N	n/a	DNQ	0.038	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Phosphorus as P	Dissolved	=	0.015	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Phosphorus as P	Total	=	0.16	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/7/2012	TKN	n/a	=	1.6	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/24/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Benzo(a)pyrene	n/a	=	0.18	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.2	µg/L	EPA 525.2	1.1	3	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Butyl benzyl phthalate	n/a	DNQ	0.85	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Diethyl phthalate	n/a	DNQ	0.93	µg/L	EPA 625	0.15	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/24/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/31/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Azinphos methyl	n/a	<	0.016	µg/L	EPA 525.2	0.016	0.029	WKL	D, EUM, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Bolstar	n/a	<	0.014	µg/L	EPA 525.2	0.014	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Chlorpyrifos	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Coumaphos	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Demeton-O	n/a	<	0.029	µg/L	EPA 525.2	0.029	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Demeton-S	n/a	<	0.029	µg/L	EPA 525.2	0.029	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Diazinon	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Dichlorvos	n/a	<	0.0085	µg/L	EPA 525.2	0.0085	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Dimethoate	n/a	<	0.018	µg/L	EPA 525.2	0.018	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Diphenamid	n/a	=	0.15	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Disulfoton	n/a	<	0.029	µg/L	EPA 525.2	0.029	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Ethoprop	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Ethyl parathion	n/a	<	0.016	µg/L	EPA 525.2	0.016	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Fensulfthion	n/a	<	0.0085	µg/L	EPA 525.2	0.0085	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Fenthion	n/a	<	0.011	µg/L	EPA 525.2	0.011	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/29/2012	Glyphosate	n/a	DNQ	3.9	µg/L	EPA 547	1.8	5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Malathion	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Merphos	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Methyl parathion	n/a	<	0.019	µg/L	EPA 525.2	0.019	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Metolachlor	n/a	=	0.18	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Mevinphos	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Naled	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Phorate	n/a	<	0.0088	µg/L	EPA 525.2	0.0088	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/4/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Ronnel (Fenchlorphos)	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0091	µg/L	EPA 525.2	0.0091	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Tokuthion	n/a	<	0.023	µg/L	EPA 525.2	0.023	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	5/30/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/6/2012	Trichloronate	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.029	WKL	D, RE
MO-OXN	2011/12-4	Dry	5/22/2012 11:05:00 AM	6/2/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/16/2012 8:35:00 AM	E. Coli	n/a	=	2142	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/16/2012 8:35:00 AM	Total Coliform	n/a	=	172300	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/24/2012	Calcium	Total	=	100	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/24/2012	Magnesium	Total	=	42	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/15/2012 11:30:00 AM	Conductivity	n/a	=	1384	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/15/2012 11:30:00 AM	Discharge	n/a	=	2.45	cfs	Field Meter	-88	-88	Field Crew	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/15/2012 11:30:00 AM	DO	n/a	=	12.6	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/15/2012 11:30:00 AM	DO	n/a	=	167	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/24/2012	Hardness as CaCO3	Total	=	430	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/15/2012 11:30:00 AM	pH	n/a	=	8.64	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/15/2012 11:30:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/15/2012 11:30:00 AM	Specific Conductance	n/a	=	1328	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/15/2012 11:30:00 AM	Temperature	n/a	=	30.2	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/22/2012	Total Organic Carbon	n/a	=	15	mg/L	SM 5310 C	0.09	3	WKL	D
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/15/2012 11:30:00 AM	Turbidity	n/a	=	7.15	NTU	Field Meter	-88	0.01	Field Crew	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/24/2012	Copper	Dissolved	=	24	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/24/2012	Copper	Total	=	31	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/24/2012	Lead	Dissolved	DNQ	0.13	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/24/2012	Lead	Total	=	2.3	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/24/2012	Zinc	Dissolved	=	16	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2012-DRY	Dry	8/15/2012 11:30:00 AM	8/24/2012	Zinc	Total	=	32	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/6/2011 7:30:00 AM	E. Coli	n/a	=	9804	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/7/2011 11:50:00 AM	Fecal Coliform	n/a	=	50000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/6/2011 7:30:00 AM	Total Coliform	n/a	=	241920	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	Conductivity	n/a	=	800	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/18/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	DO	n/a	=	53.4	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	DO	n/a	=	4.93	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	pH	n/a	=	6.9	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	Salinity	n/a	=	500	mg/L	Field Meter	-88	100	Field Crew	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	Specific Conductance	n/a	=	939	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/5/2011 9:15:00 AM	Temperature	n/a	=	16.7	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/10/2011	Oil and Grease	n/a	DNQ	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/11/2011	2-Chloroethyl vinyl ether	n/a	<	6.1	µg/L	EPA 524.2	6.1	10	WKL	D
MO-SIM	2011/12-1	Wet	10/5/2011 9:15:00 AM	10/11/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.9	µg/L	EPA 524.2	1.9	20	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Chloride	n/a	=	25	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Fluoride	n/a	=	0.23	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/11/2011	Perchlorate	n/a	DNQ	1.7	µg/L	EPA 314.0	0.95	2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/11/2011	Calcium	Total	=	140	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/11/2011	Magnesium	Total	=	18	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/17/2011	Alkalinity as CaCO3	n/a	=	84	mg/L	SM 2320 B	0.56	2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/14/2011	BOD	n/a	=	12	mg/L	SM 5210 B	0.1	2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/10/2011	COD	n/a	=	130	mg/L	EPA 410.4	0.73	5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/11/2011	Hardness as CaCO3	Total	=	420	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/7/2011	MBAS	n/a	=	0.41	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/17/2011	Phenolics	n/a	=	0.068	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/18/2011	Specific Conductance	n/a	=	450	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Total Dissolved Solids	n/a	=	300	mg/L	SM 2540 C	4	10	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/26/2011	Total Organic Carbon	n/a	=	16	mg/L	SM 5310 C	0.072	2.4	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Total Suspended Solids	n/a	=	460	mg/L	SM 2540 D	5	5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/7/2011	Turbidity	n/a	=	85	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Volatile Suspended Solids	n/a	=	78	mg/L	EPA 160.4	3.1	5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Aluminum	Dissolved	=	28	µg/L	EPA 200.8	0.61	5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Aluminum	Total	=	3700	µg/L	EPA 200.8	6.1	50	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Antimony	Dissolved	=	1.1	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Antimony	Total	=	3.1	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Arsenic	Total	=	5.3	µg/L	EPA 200.8	0.036	0.4	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Beryllium	Total	=	0.2	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Cadmium	Dissolved	DNQ	0.062	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Cadmium	Total	=	2.2	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Chromium	Dissolved	=	0.73	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Chromium	Total	=	11	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/10/2011	Chromium VI	n/a	=	0.46	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Copper	Dissolved	=	6.1	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Copper	Total	=	80	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/11/2011	Iron	Dissolved	=	110	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/11/2011	Iron	Total	=	7900	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Lead	Dissolved	=	0.93	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Lead	Total	=	31	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/10/2011	Mercury	Dissolved	DNQ	31	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/10/2011	Mercury	Total	DNQ	47	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Nickel	Dissolved	=	5.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Nickel	Total	=	23	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Selenium	Dissolved	=	3.6	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Selenium	Total	=	4.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Silver	Total	=	0.31	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Thallium	Total	DNQ	0.11	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Zinc	Dissolved	=	20	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/12/2011	Zinc	Total	=	270	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/18/2011	Ammonia as N	n/a	=	1	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/20/2011	Nitrate + Nitrite as N	n/a	=	1.6	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Phosphorus as P	Dissolved	=	0.26	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Phosphorus as P	Total	=	1.2	mg/L	EPA 365.1	0.07	0.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/17/2011	TKN	n/a	=	1.7	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	2,4,5-Trichlorophenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	2,4,6-Trichlorophenol	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	2,4-Dichlorophenol	n/a	<	2.6	µg/L	EPA 8270Cm	2.6	5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	2,4-Dimethylphenol	n/a	<	5	µg/L	EPA 8270Cm	5	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	2,4-Dinitrophenol	n/a	<	5	µg/L	EPA 8270Cm	5	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	2-Chlorophenol	n/a	<	3.2	µg/L	EPA 8270Cm	3.2	5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	2-Methylphenol	n/a	<	1.7	µg/L	EPA 8270Cm	1.7	5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	2-Nitrophenol	n/a	<	3.6	µg/L	EPA 8270Cm	3.6	5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	3-/4-Methylphenol	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.7	µg/L	EPA 8270Cm	0.7	5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	4-Chloro-3-methylphenol	n/a	<	1.8	µg/L	EPA 8270Cm	1.8	5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	4-Nitrophenol	n/a	<	5	µg/L	EPA 8270Cm	5	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Acenaphthene	n/a	<	0.6	µg/L	EPA 8270Cm	0.6	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	Acenaphthylene	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Anthracene	n/a	<	0.6	µg/L	EPA 8270Cm	0.6	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Benzo(a)anthracene	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Benzenzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	Benzo(b)fluoranthene	n/a	<	0.75	µg/L	EPA 8270Cm	0.75	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	Benzo(k)fluoranthene	n/a	<	0.6	µg/L	EPA 8270Cm	0.6	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.6	µg/L	EPA 525.2	1.1	3	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	Chrysene	n/a	<	0.45	µg/L	EPA 8270Cm	0.45	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Diethyl phthalate	n/a	DNQ	6.1	µg/L	EPA 625	1.5	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	Fluorene	n/a	<	0.75	µg/L	EPA 8270Cm	0.75	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.5	µg/L	EPA 8270Cm	0.5	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	Naphthalene	n/a	<	0.55	µg/L	EPA 8270Cm	0.55	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/29/2011	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	Phenanthrene	n/a	<	0.55	µg/L	EPA 8270Cm	0.55	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/24/2011	Phenol	n/a	<	1.8	µg/L	EPA 8270Cm	1.8	5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	2.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	D
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	D



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	4,4'-DDE	n/a	DNQ	0.0066	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	4,4'-DDT	n/a	DNQ	0.0043	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/17/2011	Glyphosate	n/a	=	5.1	µg/L	EPA 547	1.8	5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Ronnel (Fenclorophos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/25/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/19/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2011/12-1	Wet	10/6/2011 8:30:00 AM	10/21/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/24/2012 8:52:00 AM	Fecal Coliform	n/a	=	60000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	547500	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	Conductivity	n/a	=	322.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	DO	n/a	=	8.69	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	DO	n/a	=	83.5	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	pH	n/a	=	7.1	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	Salinity	n/a	=	200	mg/L	Field Meter	-88	100	Field Crew	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	Specific Conductance	n/a	=	419.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/21/2012 4:30:00 AM	Temperature	n/a	=	12.9	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/23/2012	Oil and Grease	n/a	DNQ	1.6	mg/L	EPA 1664A	1.3	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 4:30:00 AM	1/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/24/2012	Chloride	n/a	=	20	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/24/2012	Fluoride	n/a	=	0.18	mg/L	EPA 300.0	0.02	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/23/2012	Calcium	Total	=	47	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/23/2012	Magnesium	Total	=	11	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Alkalinity as CaCO3	n/a	=	87	mg/L	SM 2320 B	0.56	10	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/27/2012	BOD	n/a	=	7.9	mg/L	SM 5210 B	0.1	2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/26/2012	COD	n/a	=	58	mg/L	EPA 410.4	0.73	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/23/2012	Hardness as CaCO3	Total	=	160	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/22/2012	MBAS	n/a	=	0.13	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Phenolics	n/a	=	0.021	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/24/2012	Specific Conductance	n/a	=	340	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/25/2012	Total Dissolved Solids	n/a	=	210	mg/L	SM 2540 C	4	10	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/26/2012	Total Organic Carbon	n/a	=	9.6	mg/L	SM 5310 C	0.045	1.5	WKL	D
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/24/2012	Total Suspended Solids	n/a	=	150	mg/L	SM 2540 D	5	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/22/2012	Turbidity	n/a	=	9.8	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/24/2012	Volatile Suspended Solids	n/a	=	37	mg/L	EPA 160.4	3.1	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Aluminum	Dissolved	=	16	µg/L	EPA 200.8	0.61	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Aluminum	Total	=	970	µg/L	EPA 200.8	0.61	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Antimony	Dissolved	=	0.5	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Antimony	Total	=	1.2	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Arsenic	Dissolved	=	0.89	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Arsenic	Total	=	2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Cadmium	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Cadmium	Total	=	0.41	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Chromium	Dissolved	=	0.6	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Chromium	Total	=	2.9	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/23/2012	Chromium VI	n/a	=	0.41	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Copper	Dissolved	=	7.3	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Copper	Total	=	14	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/23/2012	Iron	Dissolved	=	40	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/23/2012	Iron	Total	=	2000	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Lead	Dissolved	=	0.34	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Lead	Total	=	4.9	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/24/2012	Mercury	Dissolved	DNQ	9	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/24/2012	Mercury	Total	DNQ	17	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Nickel	Dissolved	=	1.5	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Nickel	Total	=	5.1	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Selenium	Dissolved	=	2.1	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Selenium	Total	=	2.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Thallium	Total	DNQ	0.02	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Zinc	Dissolved	=	15	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/28/2012	Zinc	Total	=	62	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/27/2012	Ammonia as N	n/a	=	0.54	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/22/2012	Nitrate + Nitrite as N	n/a	=	0.98	mg/L	EPA 353.2	0.01	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Phosphorus as P	Dissolved	=	0.14	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Phosphorus as P	Total	=	0.41	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/2/2012	TKN	n/a	=	1.9	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.8	µg/L	EPA 525.2	1.1	3	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Diethyl phthalate	n/a	=	4	µg/L	EPA 625	0.15	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	4,4'-DDE	n/a	DNQ	0.0079	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/23/2012	Glyphosate	n/a	=	7.8	µg/L	EPA 547	1.8	5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Malathion	n/a	=	0.014	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2011/12-2	Wet	1/21/2012 11:00:00 AM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/18/2012 7:00:00 AM	E. Coli	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/19/2012 11:22:00 AM	Fecal Coliform	n/a	=	50000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/18/2012 7:00:00 AM	Total Coliform	n/a	=	648800	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/17/2012 7:50:00 AM	Conductivity	n/a	=	154	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/17/2012 7:50:00 AM	DO	n/a	=	8.19	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/17/2012 7:50:00 AM	DO	n/a	=	84	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/17/2012 7:50:00 AM	pH	n/a	=	7.6	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/17/2012 7:50:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/17/2012 7:50:00 AM	Specific Conductance	n/a	=	200.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/17/2012 7:50:00 AM	Temperature	n/a	=	14.2	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/20/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/20/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-SIM	2011/12-3	Wet	3/17/2012 7:50:00 AM	3/20/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/21/2012	Chloride	n/a	=	76	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/21/2012	Fluoride	n/a	=	0.3	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/23/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/26/2012	Calcium	Total	=	110	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/26/2012	Magnesium	Total	=	39	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	120	mg/L	SM 2320 B	0.56	2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	BOD	n/a	=	11	mg/L	SM 5210 B	0.1	2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/23/2012	COD	n/a	=	53	mg/L	EPA 410.4	0.73	5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/26/2012	Hardness as CaCO3	Total	=	440	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/19/2012	MBAS	n/a	=	0.089	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.5	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/29/2012	Phenolics	n/a	=	0.021	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/20/2012	Specific Conductance	n/a	=	1200	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	600	mg/L	SM 2540 C	4	10	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/22/2012	Total Organic Carbon	n/a	=	9.7	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/23/2012	Total Suspended Solids	n/a	=	260	mg/L	SM 2540 D	5	5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/19/2012	Turbidity	n/a	=	120	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/23/2012	Volatile Suspended Solids	n/a	=	46	mg/L	EPA 160.4	3.1	5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Aluminum	Dissolved	=	11	µg/L	EPA 200.8	0.61	5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Aluminum	Total	=	1200	µg/L	EPA 200.8	0.61	5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Antimony	Dissolved	=	0.57	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Antimony	Total	=	1.1	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Arsenic	Total	=	2.3	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Cadmium	Dissolved	=	0.11	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Cadmium	Total	=	0.3	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Chromium	Dissolved	=	1	µg/L	EPA 200.8	0.074	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Chromium	Total	=	3.7	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/20/2012	Chromium VI	n/a	=	0.77	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Copper	Dissolved	=	5.1	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Copper	Total	=	13	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/26/2012	Iron	Dissolved	=	49	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/26/2012	Iron	Total	=	2200	µg/L	EPA 200.7	1.1	10	WKL	GB
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Lead	Dissolved	DNQ	0.15	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Lead	Total	=	6.2	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/22/2012	Mercury	Dissolved	DNQ	31	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/22/2012	Mercury	Total	DNQ	40	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Nickel	Dissolved	=	3.7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Nickel	Total	=	6.6	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Selenium	Dissolved	=	13	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Selenium	Total	=	13	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Silver	Total	DNQ	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Thallium	Total	DNQ	0.025	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Zinc	Dissolved	=	13	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/4/2012	Zinc	Total	=	47	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/27/2012	Ammonia as N	n/a	=	0.37	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	3.3	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.14	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/30/2012	Phosphorus as P	Total	=	0.33	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/29/2012	TKN	n/a	=	1.3	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Benzo(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Benzenidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Diethyl phthalate	n/a	=	4.7	µg/L	EPA 625	0.15	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Dimethoate	n/a	=	0.053	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Fensulfotion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/19/2012	Glyphosate	n/a	=	6	µg/L	EPA 547	1.8	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	Pentachlorophenol	n/a	DNQ	0.13	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/24/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	4/3/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2011/12-3	Wet	3/18/2012 9:16:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/7/2012	Chloride	n/a	=	180	mg/L	EPA 300.0	1	5	WKL	D
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/7/2012	Fluoride	n/a	=	0.55	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/1/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/25/2012 9:15:00 AM	E. Coli	n/a	=	1664	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/28/2012 12:38:00 PM	Fecal Coliform	n/a	=	3000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/25/2012 9:15:00 AM	Total Coliform	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/4/2012	Calcium	Total	=	300	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/4/2012	Magnesium	Total	=	100	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/30/2012	Alkalinity as CaCO3	n/a	=	270	mg/L	SM 2320 B	0.56	10	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/30/2012	BOD	n/a	DNQ	1.3	mg/L	SM 5210 B	0.1	2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/1/2012	COD	n/a	=	7.7	mg/L	EPA 410.4	0.73	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/24/2012 9:10:00 AM	Conductivity	n/a	=	2607	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/7/2012	Cyanide	Total	DNQ	0.0039	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/24/2012 9:10:00 AM	DO	n/a	=	8.39	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/24/2012 9:10:00 AM	DO	n/a	=	92.5	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/4/2012	Hardness as CaCO3	Total	=	1200	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/25/2012	MBAS	n/a	DNQ	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/24/2012 9:10:00 AM	pH	n/a	=	8.01	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Phenolics	n/a	=	0.012	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/24/2012 9:10:00 AM	Salinity	n/a	=	1500	mg/L	Field Meter	-88	100	Field Crew	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/24/2012 9:10:00 AM	Specific Conductance	n/a	=	2911	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/31/2012	Specific Conductance	n/a	=	3300	µmhos/cm	SM 2510 B	0.94	8	WKL	D
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/24/2012 9:10:00 AM	Temperature	n/a	=	19.6	°C	Field Meter	-88	0.1	Field Crew	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/30/2012	Total Dissolved Solids	n/a	=	1500	mg/L	SM 2540 C	4	10	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/4/2012	Total Organic Carbon	n/a	=	2.6	mg/L	SM 5310 C	0.018	0.6	WKL	D
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/30/2012	Total Suspended Solids	n/a	=	7	mg/L	SM 2540 D	5	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/25/2012	Turbidity	n/a	=	1.3	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/30/2012	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/4/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/4/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Aluminum	Dissolved	DNQ	1.9	µg/L	EPA 200.8	0.61	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Aluminum	Total	=	7.2	µg/L	EPA 200.8	0.61	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Antimony	Dissolved	DNQ	0.17	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Antimony	Total	DNQ	0.16	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Arsenic	Dissolved	=	1.3	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Arsenic	Total	=	1.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	GB
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	GB
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Cadmium	Dissolved	=	0.16	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Cadmium	Total	=	0.18	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Chromium	Dissolved	=	1.8	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Chromium	Total	=	1.8	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Chromium VI	n/a	=	1.4	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Copper	Dissolved	=	1.3	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Copper	Total	=	1.5	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/4/2012	Iron	Dissolved	DNQ	2.1	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/4/2012	Iron	Total	=	24	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Lead	Dissolved	DNQ	0.013	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Lead	Total	DNQ	0.11	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Mercury	Dissolved	DNQ	18	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Mercury	Total	DNQ	5	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Nickel	Dissolved	=	6.9	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Nickel	Total	=	7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Selenium	Dissolved	=	39	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Selenium	Total	=	39	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Thallium	Total	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Zinc	Dissolved	DNQ	1.7	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/6/2012	Zinc	Total	DNQ	1.9	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Ammonia as N	n/a	DNQ	0.063	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/25/2012	Nitrate + Nitrite as N	n/a	DNQ	0.05	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/11/2012	Phosphorus as P	Dissolved	DNQ	0.0097	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/11/2012	Phosphorus as P	Total	=	0.012	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	TKN	n/a	<	0.074	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	IL
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	IL
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Ben-zidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	IL
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Benzo(k)fluoranthene	n/a	DNQ	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	IL
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	IL
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Diethyl phthalate	n/a	=	7.2	µg/L	EPA 625	0.15	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Indeno(1,2,3-cd)pyrene	n/a	DNQ	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	IL
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	IL
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Dimethoate	n/a	=	0.056	µg/L	EPA 525.2	0.0062	0.01	WKL	EUM
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	5/29/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Meviphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/5/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/8/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2011/12-4	Dry	5/24/2012 9:10:00 AM	6/2/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/17/2012 6:48:00 AM	E. Coli	n/a	=	1616	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/17/2012 6:48:00 AM	Total Coliform	n/a	=	7701	MPN/100 mL	MMO-MUG	10	10	VCHCA	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/24/2012	Calcium	Total	=	300	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/24/2012	Magnesium	Total	=	110	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/16/2012 8:55:00 AM	Conductivity	n/a	=	2565	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/16/2012 8:55:00 AM	Discharge	n/a	=	0.68	cfs	Field Meter	-88	-88	Field Crew	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/16/2012 8:55:00 AM	DO	n/a	=	104.5	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/16/2012 8:55:00 AM	DO	n/a	=	9.36	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/24/2012	Hardness as CaCO3	Total	=	1200	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/16/2012 8:55:00 AM	pH	n/a	=	7.97	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/16/2012 8:55:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/16/2012 8:55:00 AM	Specific Conductance	n/a	=	2810	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/16/2012 8:55:00 AM	Temperature	n/a	=	20.3	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/22/2012	Total Organic Carbon	n/a	=	2.5	mg/L	SM 5310 C	0.018	0.6	WKL	D
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/16/2012 8:55:00 AM	Turbidity	n/a	=	1.4	NTU	Field Meter	-88	0.01	Field Crew	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/24/2012	Copper	Dissolved	DNQ	0.37	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/24/2012	Copper	Total	=	0.5	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/24/2012	Lead	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/24/2012	Lead	Total	DNQ	0.07	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/24/2012	Zinc	Dissolved	DNQ	1.9	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2012-DRY	Dry	8/16/2012 8:55:00 AM	8/24/2012	Zinc	Total	DNQ	1.2	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/6/2011 7:30:00 AM	E. Coli	n/a	=	20460	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/7/2011 12:10:00 PM	Fecal Coliform	n/a	=	50000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/6/2011 7:30:00 AM	Total Coliform	n/a	=	307600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/5/2011 6:15:00 AM	Conductivity	n/a	=	288.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/17/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/5/2011 6:15:00 AM	DO	n/a	=	7.42	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/5/2011 6:15:00 AM	DO	n/a	=	76.3	%	Field Meter	-88	0.1	Field Crew	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/5/2011 6:15:00 AM	pH	n/a	=	7.3	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/5/2011 6:15:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/5/2011 6:15:00 AM	Specific Conductance	n/a	=	332.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/5/2011 6:15:00 AM	Temperature	n/a	=	17.6	°C	Field Meter	-88	0.1	Field Crew	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/11/2011	2-Chloroethyl vinyl ether	n/a	<	6.1	µg/L	EPA 524.2	6.1	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 6:15:00 AM	10/11/2011	Methyl tert-butyl ether (MTBE)	n/a	<	1.9	µg/L	EPA 524.2	1.9	20	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/11/2011	Chloride	n/a	=	8.4	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/11/2011	Fluoride	n/a	=	0.14	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/10/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Calcium	Total	=	24	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Magnesium	Total	=	6.2	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/17/2011	Alkalinity as CaCO3	n/a	=	44	mg/L	SM 2320 B	0.56	2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	BOD	n/a	=	24	mg/L	SM 5210 B	0.1	2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/10/2011	COD	n/a	=	140	mg/L	EPA 410.4	0.73	5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Hardness as CaCO3	Total	=	85	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/6/2011	MBAS	n/a	=	0.53	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/17/2011	Phenolics	n/a	=	0.087	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/17/2011	Specific Conductance	n/a	=	200	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/10/2011	Total Dissolved Solids	n/a	=	140	mg/L	SM 2540 C	4	10	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/26/2011	Total Organic Carbon	n/a	=	31	mg/L	SM 5310 C	0.09	3	WKL	D



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/10/2011	Total Suspended Solids	n/a	=	320	mg/L	SM 2540 D	5	5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/6/2011	Turbidity	n/a	=	94	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/10/2011	Volatile Suspended Solids	n/a	=	79	mg/L	EPA 160.4	3.1	5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Aluminum	Dissolved	=	46	µg/L	EPA 200.8	0.61	5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Aluminum	Total	=	3700	µg/L	EPA 200.8	6.1	50	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Antimony	Dissolved	=	1	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Antimony	Total	=	2.7	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Arsenic	Dissolved	=	0.96	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Arsenic	Total	=	2.3	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/18/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/18/2011	Beryllium	Total	=	0.19	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Cadmium	Dissolved	=	0.15	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Cadmium	Total	=	0.88	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Chromium	Dissolved	=	2.1	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Chromium	Total	=	10	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/6/2011	Chromium VI	n/a	=	1.4	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Copper	Dissolved	=	18	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Copper	Total	=	56	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Iron	Dissolved	=	130	µg/L	EPA 200.7	1.1	10	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Iron	Total	=	6100	µg/L	EPA 200.7	1.1	10	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Lead	Dissolved	=	2.3	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Lead	Total	=	34	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/10/2011	Mercury	Dissolved	DNQ	28	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/10/2011	Mercury	Total	DNQ	42	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Nickel	Dissolved	=	6.9	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Nickel	Total	=	16	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Selenium	Dissolved	=	0.44	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Selenium	Total	=	0.67	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Silver	Total	DNQ	0.18	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Thallium	Total	DNQ	0.06	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Zinc	Dissolved	=	100	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Zinc	Total	=	350	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/12/2011	Ammonia as N	n/a	=	0.81	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/18/2011	Nitrate + Nitrite as N	n/a	=	1.8	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/19/2011	Phosphorus as P	Dissolved	=	0.41	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/14/2011	Phosphorus as P	Total	=	0.97	mg/L	EPA 365.1	0.035	0.25	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/17/2011	TKN	n/a	=	4.1	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	2,4,5-Trichlorophenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	2,4,6-Trichlorophenol	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	2,4-Dichlorophenol	n/a	<	2.6	µg/L	EPA 8270Cm	2.6	5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	2,4-Dimethylphenol	n/a	<	5	µg/L	EPA 8270Cm	5	10	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	2,4-Dinitrophenol	n/a	<	5	µg/L	EPA 8270Cm	5	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	2-Chlorophenol	n/a	<	3.2	µg/L	EPA 8270Cm	3.2	5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	2-Methylphenol	n/a	<	1.7	µg/L	EPA 8270Cm	1.7	5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	2-Nitrophenol	n/a	<	3.6	µg/L	EPA 8270Cm	3.6	5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	3-/4-Methylphenol	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	4,6-Dinitro-2-methylphenol	n/a	<	0.7	µg/L	EPA 8270Cm	0.7	5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	4-Chloro-3-methylphenol	n/a	<	1.8	µg/L	EPA 8270Cm	1.8	5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	4-Nitrophenol	n/a	<	5	µg/L	EPA 8270Cm	5	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Acenaphthene	n/a	<	0.6	µg/L	EPA 8270Cm	0.6	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	Acenaphthylene	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Anthracene	n/a	<	0.6	µg/L	EPA 8270Cm	0.6	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Benz(a)anthracene	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Benzdine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	Benzo(b)fluoranthene	n/a	<	0.75	µg/L	EPA 8270Cm	0.75	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	Benzo(k)fluoranthene	n/a	<	0.6	µg/L	EPA 8270Cm	0.6	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	Chrysene	n/a	<	0.45	µg/L	EPA 8270Cm	0.45	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	Fluorene	n/a	<	0.75	µg/L	EPA 8270Cm	0.75	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	0.5	µg/L	EPA 8270Cm	0.5	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	Naphthalene	n/a	<	0.55	µg/L	EPA 8270Cm	0.55	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	Phenanthrene	n/a	<	0.55	µg/L	EPA 8270Cm	0.55	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/24/2011	Phenol	n/a	<	1.8	µg/L	EPA 8270Cm	1.8	5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	2.5	WKL	D
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	2,4-DB	n/a	=	5	µg/L	EPA 515.3	0.07	2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	4,4'-DDE	n/a	DNQ	0.0053	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	4,4'-DDT	n/a	DNQ	0.0046	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM, IL
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/10/2011	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Malathion	n/a	=	0.068	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Pentachlorophenol	n/a	=	0.25	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/13/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/25/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/20/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2011/12-1	Wet	10/5/2011 1:20:00 PM	10/27/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	959	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/23/2012 8:54:00 AM	Fecal Coliform	n/a	=	1600	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	325500	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/21/2012 1:45:00 AM	Conductivity	n/a	=	378.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/21/2012 1:45:00 AM	DO	n/a	<	11.2	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/21/2012 1:45:00 AM	DO	n/a	=	109	%	Field Meter	-88	0.1	Field Crew	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/21/2012 1:45:00 AM	pH	n/a	=	7.38	pH Units	Field Meter	-88	0.01	Field Crew	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/21/2012 1:45:00 AM	Salinity	n/a	=	200	mg/L	Field Meter	-88	100	Field Crew	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/21/2012 1:45:00 AM	Specific Conductance	n/a	=	478.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/21/2012 1:45:00 AM	Temperature	n/a	=	14.1	°C	Field Meter	-88	0.1	Field Crew	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/23/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 1:45:00 AM	1/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/26/2012	Chloride	n/a	=	6.8	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/26/2012	Fluoride	n/a	=	0.12	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/24/2012	Calcium	Total	=	21	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/24/2012	Magnesium	Total	=	5.5	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Alkalinity as CaCO3	n/a	=	47	mg/L	SM 2320 B	0.56	2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/27/2012	BOD	n/a	=	25	mg/L	SM 5210 B	0.1	2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/26/2012	COD	n/a	=	170	mg/L	EPA 410.4	0.73	5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/24/2012	Hardness as CaCO3	Total	=	74	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/22/2012	MBAS	n/a	=	0.37	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Phenolics	n/a	=	0.03	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Specific Conductance	n/a	=	230	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/25/2012	Total Dissolved Solids	n/a	=	120	mg/L	SM 2540 C	4	10	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/26/2012	Total Organic Carbon	n/a	=	36	mg/L	SM 5310 C	0.18	6	WKL	D
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/26/2012	Total Suspended Solids	n/a	=	140	mg/L	SM 2540 D	5	5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/22/2012	Turbidity	n/a	=	16	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/26/2012	Volatile Suspended Solids	n/a	=	41	mg/L	EPA 160.4	3.1	5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Aluminum	Dissolved	=	30	µg/L	EPA 200.8	0.61	5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Aluminum	Total	=	2100	µg/L	EPA 200.8	0.61	5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Antimony	Dissolved	=	0.79	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Antimony	Total	=	1.7	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Arsenic	Total	=	1.9	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Cadmium	Dissolved	=	0.11	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Cadmium	Total	=	0.48	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Chromium	Dissolved	=	0.83	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Chromium	Total	=	4.9	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/23/2012	Chromium VI	n/a	DNQ	0.27	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Copper	Dissolved	=	18	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Copper	Total	=	48	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/24/2012	Iron	Dissolved	=	85	µg/L	EPA 200.7	1.1	10	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/24/2012	Iron	Total	=	3300	µg/L	EPA 200.7	1.1	10	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Lead	Dissolved	=	2.2	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Lead	Total	=	20	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/25/2012	Mercury	Dissolved	DNQ	24	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/25/2012	Mercury	Total	DNQ	36	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Nickel	Dissolved	=	4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Nickel	Total	=	8.3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Selenium	Dissolved	=	0.52	µg/L	EPA 200.8	0.28	0.4	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Selenium	Total	=	0.53	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Silver	Total	DNQ	0.089	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Thallium	Total	DNQ	0.036	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Zinc	Dissolved	=	66	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Zinc	Total	=	200	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/27/2012	Ammonia as N	n/a	=	1	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/21/2012 5:30:00 PM	Nitrate + Nitrite as N	n/a	=	1.1	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/6/2012	Phosphorus as P	Dissolved	=	0.46	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/6/2012	Phosphorus as P	Total	=	0.89	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/2/2012	TKN	n/a	=	4.3	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	1,2,4-Trichlorobenzene	n/a	<	2.2	µg/L	EPA 625	2.2	4	WKL	D, EUM, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	1,2-Dichlorobenzene	n/a	<	2.3	µg/L	EPA 625	2.3	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	1,2-Diphenylhydrazine	n/a	<	1	µg/L	EPA 625	1	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	1,3-Dichlorobenzene	n/a	<	2.1	µg/L	EPA 625	2.1	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	1,4-Dichlorobenzene	n/a	<	2.2	µg/L	EPA 625	2.2	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	2,4-Dinitrotoluene	n/a	<	0.72	µg/L	EPA 625	0.72	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	2,6-Dinitrotoluene	n/a	<	1.1	µg/L	EPA 625	1.1	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	2-Chloronaphthalene	n/a	<	1.8	µg/L	EPA 625	1.8	4	WKL	D, EUM, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	3,3'-Dichlorobenzidine	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	3-/4-Methylphenol	n/a	<	1.2	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	4-Bromophenyl phenyl ether	n/a	<	1.4	µg/L	EPA 625	1.4	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	4-Chlorophenyl phenyl ether	n/a	<	1.6	µg/L	EPA 625	1.6	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Benidine	n/a	<	15	µg/L	EPA 625	15	40	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Benzo(b)fluoranthene	n/a	DNQ	0.35	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Bis(2-chloroethoxy)methane	n/a	<	1	µg/L	EPA 625	1	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Bis(2-chloroethyl)ether	n/a	<	1.1	µg/L	EPA 625	1.1	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Bis(2-chloroisopropyl)ether	n/a	<	1.5	µg/L	EPA 625	1.5	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	=	5.4	µg/L	EPA 525.2	1.1	3	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Butyl benzyl phthalate	n/a	<	0.72	µg/L	EPA 625	0.72	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Chrysene	n/a	DNQ	0.32	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Diethyl phthalate	n/a	<	0.6	µg/L	EPA 625	0.6	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Dimethyl phthalate	n/a	<	0.72	µg/L	EPA 625	0.72	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Di-n-butylphthalate	n/a	<	0.96	µg/L	EPA 625	0.96	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Di-n-octylphthalate	n/a	<	0.76	µg/L	EPA 625	0.76	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Fluoranthene	n/a	DNQ	0.45	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Hexachlorobenzene	n/a	<	2	µg/L	EPA 625	2	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Hexachlorobutadiene	n/a	<	1.9	µg/L	EPA 625	1.9	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Hexachlorocyclopentadiene	n/a	<	5.8	µg/L	EPA 625	5.8	20	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Hexachloroethane	n/a	<	2.1	µg/L	EPA 625	2.1	4	WKL	D, EUM, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Isophorone	n/a	<	0.84	µg/L	EPA 625	0.84	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	Nitrobenzene	n/a	<	1.4	µg/L	EPA 625	1.4	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	N-Nitrosodimethylamine	n/a	<	0.56	µg/L	EPA 625	0.56	4	WKL	D, EUM, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	N-Nitrosodi-N-propylamine	n/a	<	1	µg/L	EPA 625	1	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/29/2012	N-Nitrosodiphenylamine	n/a	<	0.76	µg/L	EPA 625	0.76	4	WKL	D, H, PJM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Phenanthrene	n/a	DNQ	0.28	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Pyrene	n/a	DNQ	0.39	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Chloroprotham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Diazinon	n/a	DNQ	0.0067	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Fensulfthion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/23/2012	Glyphosate	n/a	<	9	µg/L	EPA 547	9	25	WKL	D
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	Pentachlorophenol	n/a	=	0.52	µg/L	EPA 515.3	0.04	0.2	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2011/12-2	Wet	1/21/2012 8:58:00 AM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/18/2012 7:00:00 AM	E. Coli	n/a	=	4106	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/21/2012 11:02:00 AM	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/18/2012 7:00:00 AM	Total Coliform	n/a	=	461100	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/17/2012 5:50:00 AM	Conductivity	n/a	=	245.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/17/2012 5:50:00 AM	DO	n/a	=	92.6	%	Field Meter	-88	0.1	Field Crew	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/17/2012 5:50:00 AM	DO	n/a	=	9.45	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/17/2012 5:50:00 AM	pH	n/a	=	7.4	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/17/2012 5:50:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/17/2012 5:50:00 AM	Specific Conductance	n/a	=	318	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/17/2012 5:50:00 AM	Temperature	n/a	=	14.6	°C	Field Meter	-88	0.1	Field Crew	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/20/2012	Oil and Grease	n/a	=	6.4	mg/L	EPA 1664A	1.3	5	WKL	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/19/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-SPA	2011/12-3	Wet	3/17/2012 5:50:00 AM	3/19/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/21/2012	Chloride	n/a	=	14	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/21/2012	Fluoride	n/a	=	0.1	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/23/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/26/2012	Calcium	Total	=	19	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/26/2012	Magnesium	Total	=	4.5	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	36	mg/L	SM 2320 B	0.56	2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	BOD	n/a	=	20	mg/L	SM 5210 B	0.1	2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/23/2012	COD	n/a	=	110	mg/L	EPA 410.4	0.73	5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/26/2012	Hardness as CaCO3	Total	=	65	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/19/2012	MBAS	n/a	=	0.26	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.19	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/29/2012	Phenolics	n/a	=	0.03	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/20/2012	Specific Conductance	n/a	=	190	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	110	mg/L	SM 2540 C	4	10	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/22/2012	Total Organic Carbon	n/a	=	21	mg/L	SM 5310 C	0.09	3	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/23/2012	Total Suspended Solids	n/a	=	110	mg/L	SM 2540 D	5	5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/19/2012	Turbidity	n/a	=	88	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/23/2012	Volatile Suspended Solids	n/a	=	29	mg/L	EPA 160.4	3.1	5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Aluminum	Dissolved	=	34	µg/L	EPA 200.8	0.61	5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Aluminum	Total	=	2000	µg/L	EPA 200.8	0.61	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Antimony	Dissolved	=	0.84	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Antimony	Total	=	1.6	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Arsenic	Total	=	1.7	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Beryllium	Total	=	0.11	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Cadmium	Dissolved	=	0.14	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Cadmium	Total	=	0.52	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Chromium	Dissolved	=	1.1	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Chromium	Total	=	5	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/20/2012	Chromium VI	n/a	=	0.59	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Copper	Dissolved	=	13	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Copper	Total	=	30	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/26/2012	Iron	Dissolved	=	83	µg/L	EPA 200.7	1.1	10	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/26/2012	Iron	Total	=	3200	µg/L	EPA 200.7	1.1	10	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Lead	Dissolved	=	1.6	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Lead	Total	=	20	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/22/2012	Mercury	Dissolved	DNQ	38	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/22/2012	Mercury	Total	=	55	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Nickel	Dissolved	=	3.8	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Nickel	Total	=	8	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Selenium	Dissolved	=	0.44	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Selenium	Total	=	0.62	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Silver	Total	DNQ	0.053	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Thallium	Total	DNQ	0.034	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Zinc	Dissolved	=	50	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/4/2012	Zinc	Total	=	150	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/27/2012	Ammonia as N	n/a	=	0.56	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	0.6	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.28	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/30/2012	Phosphorus as P	Total	=	0.58	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/29/2012	TKN	n/a	=	2.9	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	2,4,5-Trichlorophenol	n/a	<	0.58	µg/L	EPA 8270Cm	0.58	2	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	2,4,6-Trichlorophenol	n/a	<	0.6	µg/L	EPA 8270Cm	0.6	2	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	2,4-Dichlorophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	2,4-Dimethylphenol	n/a	<	2	µg/L	EPA 8270Cm	2	4	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	2,4-Dinitrophenol	n/a	<	2	µg/L	EPA 8270Cm	2	4	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	2-Chlorophenol	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	2	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	2-Methylphenol	n/a	<	0.68	µg/L	EPA 8270Cm	0.68	2	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	2-Nitrophenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	2	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	3-/4-Methylphenol	n/a	<	0.6	µg/L	EPA 8270Cm	0.6	2	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	2	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	4-Chloro-3-methylphenol	n/a	<	0.74	µg/L	EPA 8270Cm	0.74	2	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	4-Nitrophenol	n/a	<	2	µg/L	EPA 8270Cm	2	4	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Acenaphthene	n/a	<	0.24	µg/L	EPA 8270Cm	0.24	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.26	µg/L	EPA 8270Cm	0.26	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Anthracene	n/a	<	0.24	µg/L	EPA 8270Cm	0.24	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.56	µg/L	EPA 8270Cm	0.56	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Benzenzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.26	µg/L	EPA 8270Cm	0.26	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.24	µg/L	EPA 8270Cm	0.24	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.5	µg/L	EPA 525.2	1.1	3	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Butyl benzyl phthalate	n/a	DNQ	0.83	µg/L	EPA 625	0.18	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Chrysene	n/a	<	0.18	µg/L	EPA 8270Cm	0.18	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.26	µg/L	EPA 8270Cm	0.26	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Diethyl phthalate	n/a	DNQ	0.62	µg/L	EPA 625	0.15	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Fluoranthene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Fluorene	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Naphthalene	n/a	<	0.22	µg/L	EPA 8270Cm	0.22	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Phenanthrene	n/a	<	0.22	µg/L	EPA 8270Cm	0.22	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Phenol	n/a	<	0.7	µg/L	EPA 8270Cm	0.7	2	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/10/2012	Pyrene	n/a	<	0.42	µg/L	EPA 8270Cm	0.42	1	WKL	D
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	4,4'-DDT	n/a	DNQ	0.0059	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Dimethoate	n/a	=	0.017	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/19/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Malathion	n/a	=	0.082	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	Pentachlorophenol	n/a	=	0.71	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/24/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2011/12-3	Wet	3/18/2012 7:42:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/6/2011 7:30:00 AM	E. Coli	n/a	=	1793	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/8/2011 12:00:00 PM	Fecal Coliform	n/a	=	16000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/6/2011 7:30:00 AM	Total Coliform	n/a	=	22820	MPN/100 mL	MMO-MUG	100	100	VCHCA	D
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	Conductivity	n/a	=	1573	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/18/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	DO	n/a	=	7.18	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	DO	n/a	=	73.6	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	pH	n/a	=	8.1	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	Salinity	n/a	=	1000	mg/L	Field Meter	-88	100	Field Crew	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	Specific Conductance	n/a	=	1902	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/5/2011 10:30:00 AM	Temperature	n/a	=	16	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/7/2011	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-1	Wet	10/5/2011 10:30:00 AM	10/7/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Chloride	n/a	=	120	mg/L	EPA 300.0	1	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Fluoride	n/a	=	0.33	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/11/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/11/2011	Calcium	Total	=	180	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/11/2011	Magnesium	Total	=	74	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/17/2011	Alkalinity as CaCO3	n/a	=	170	mg/L	SM 2320 B	0.56	2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/14/2011	BOD	n/a	=	14	mg/L	SM 5210 B	0.1	2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/10/2011	COD	n/a	=	330	mg/L	EPA 410.4	0.73	5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/11/2011	Hardness as CaCO3	Total	=	750	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/7/2011	MBAS	n/a	=	0.15	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/17/2011	Phenolics	n/a	=	0.084	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/18/2011	Specific Conductance	n/a	=	940	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Total Dissolved Solids	n/a	=	730	mg/L	SM 2540 C	4	10	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/26/2011	Total Organic Carbon	n/a	=	28	mg/L	SM 5310 C	0.09	3	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Total Suspended Solids	n/a	=	210	mg/L	SM 2540 D	5	5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/7/2011	Turbidity	n/a	=	130	NTU	EPA 180.1	0.024	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Volatile Suspended Solids	n/a	=	38	mg/L	EPA 160.4	3.1	5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Aluminum	Dissolved	=	12	µg/L	EPA 200.8	0.61	5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Aluminum	Total	=	18000	µg/L	EPA 200.8	6.1	50	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Antimony	Dissolved	=	1.1	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Antimony	Total	=	0.89	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Arsenic	Dissolved	=	3.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Arsenic	Total	=	10	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Beryllium	Total	=	0.71	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Cadmium	Dissolved	DNQ	0.045	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Cadmium	Total	=	2.2	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Chromium	Dissolved	=	0.39	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Chromium	Total	=	56	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/10/2011	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Copper	Dissolved	=	3.2	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Copper	Total	=	92	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/11/2011	Iron	Dissolved	=	120	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/11/2011	Iron	Total	=	30000	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Lead	Dissolved	DNQ	0.15	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Lead	Total	=	22	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/10/2011	Mercury	Dissolved	DNQ	27	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/10/2011	Mercury	Total	=	86	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Nickel	Dissolved	=	6.6	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Nickel	Total	=	70	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Selenium	Dissolved	=	2.4	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Selenium	Total	=	6.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Silver	Total	=	0.5	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Thallium	Total	=	0.32	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Zinc	Dissolved	=	6.1	µg/L	EPA 200.8	1.1	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/12/2011	Zinc	Total	=	270	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/18/2011	Ammonia as N	n/a	=	0.92	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/20/2011	Nitrate + Nitrite as N	n/a	=	1.9	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	Phosphorus as P	Dissolved	=	0.15	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	Phosphorus as P	Total	=	2	mg/L	EPA 365.1	0.07	0.5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/20/2011	TKN	n/a	=	11	mg/L	EPA 351.2	0.37	0.5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	1,2,4-Trichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	1,2-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	1,2-Diphenylhydrazine	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	1,3-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	1,4-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	2,4-Dinitrotoluene	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	2,6-Dinitrotoluene	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	2-Chloronaphthalene	n/a	<	0.9	µg/L	EPA 625	0.9	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	3,3'-Dichlorobenzidine	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	4-Bromophenyl phenyl ether	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	4-Chlorophenyl phenyl ether	n/a	<	0.82	µg/L	EPA 625	0.82	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Acenaphthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Acenaphthylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Anthracene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Benz(a)anthracene	n/a	<	2.8	µg/L	EPA 8270Cm	2.8	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Benzenzidine	n/a	<	7.3	µg/L	EPA 625	7.3	20	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Benzo(b)fluoranthene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Benzo(k)fluoranthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Bis(2-chloroethoxy)methane	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Bis(2-chloroethyl)ether	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Bis(2-chloroisopropyl)ether	n/a	<	0.76	µg/L	EPA 625	0.76	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Butyl benzyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Chrysene	n/a	<	0.9	µg/L	EPA 8270Cm	0.9	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Diethyl phthalate	n/a	DNQ	1.1	µg/L	EPA 625	0.3	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Dimethyl phthalate	n/a	=	8.9	µg/L	EPA 625	0.36	2	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Di-n-butylphthalate	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Di-n-octylphthalate	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Fluoranthene	n/a	<	2	µg/L	EPA 8270Cm	2	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Fluorene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Hexachlorobenzene	n/a	<	0.98	µg/L	EPA 625	0.98	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Hexachlorobutadiene	n/a	<	0.94	µg/L	EPA 625	0.94	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Hexachlorocyclopentadiene	n/a	<	2.9	µg/L	EPA 625	2.9	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Hexachloroethane	n/a	<	1	µg/L	EPA 625	1	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Isophorone	n/a	<	0.42	µg/L	EPA 625	0.42	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Naphthalene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	Nitrobenzene	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	N-Nitrosodimethylamine	n/a	<	0.28	µg/L	EPA 625	0.28	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	N-Nitrosodi-N-propylamine	n/a	<	0.52	µg/L	EPA 625	0.52	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/29/2011	N-Nitrosodiphenylamine	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Phenanthrene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Pyrene	n/a	<	2.1	µg/L	EPA 8270Cm	2.1	5	WKL	D
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	4,4'-DDE	n/a	DNQ	0.0084	µg/L	EPA 608	0.0025	0.05	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	4,4'-DDT	n/a	DNQ	0.0044	µg/L	EPA 608	0.0031	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	IL
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Diazinon	n/a	DNQ	0.007	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/17/2011	Glyphosate	n/a	=	7.9	µg/L	EPA 547	1.8	5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Malathion	n/a	=	0.056	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/19/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/25/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2011/12-1	Wet	10/6/2011 9:22:00 AM	10/21/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	14136	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/25/2012 9:02:00 AM	Fecal Coliform	n/a	=	16000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	141360	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/21/2012 5:00:00 AM	Conductivity	n/a	=	848	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/21/2012 5:00:00 AM	DO	n/a	=	104.7	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/21/2012 5:00:00 AM	DO	n/a	=	11.3	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/21/2012 5:00:00 AM	pH	n/a	=	8.22	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/21/2012 5:00:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/21/2012 5:00:00 AM	Specific Conductance	n/a	=	1114	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/21/2012 5:00:00 AM	Temperature	n/a	=	12.4	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/23/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 5:00:00 AM	1/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/25/2012	Chloride	n/a	=	65	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/25/2012	Fluoride	n/a	=	0.23	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/23/2012	Calcium	Total	=	48	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/23/2012	Magnesium	Total	=	30	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Alkalinity as CaCO3	n/a	=	130	mg/L	SM 2320 B	0.56	10	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/27/2012	BOD	n/a	=	7.6	mg/L	SM 5210 B	0.1	2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/26/2012	COD	n/a	=	92	mg/L	EPA 410.4	0.73	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/23/2012	Hardness as CaCO3	Total	=	240	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/22/2012	MBAS	n/a	=	0.053	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Phenolics	n/a	=	0.021	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/24/2012	Specific Conductance	n/a	=	530	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/25/2012	Total Dissolved Solids	n/a	=	330	mg/L	SM 2540 C	4	10	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/26/2012	Total Organic Carbon	n/a	=	11	mg/L	SM 5310 C	0.072	2.4	WKL	D
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/26/2012	Total Suspended Solids	n/a	=	240	mg/L	SM 2540 D	5	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/22/2012	Turbidity	n/a	=	15	NTU	EPA 180.1	0.024	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/26/2012	Volatile Suspended Solids	n/a	=	52	mg/L	EPA 160.4	3.1	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Aluminum	Dissolved	=	21	µg/L	EPA 200.8	0.61	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Aluminum	Total	=	1900	µg/L	EPA 200.8	0.61	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Antimony	Dissolved	DNQ	0.42	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Antimony	Total	=	0.58	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Arsenic	Dissolved	=	1.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Arsenic	Total	=	2.3	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Beryllium	Total	=	0.11	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Cadmium	Total	=	0.37	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Chromium	Dissolved	=	0.34	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Chromium	Total	=	5.6	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/23/2012	Chromium VI	n/a	DNQ	0.16	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Copper	Dissolved	=	5	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Copper	Total	=	17	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/23/2012	Iron	Dissolved	=	61	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/23/2012	Iron	Total	=	3300	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Lead	Dissolved	DNQ	0.08	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Lead	Total	=	3.7	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/24/2012	Mercury	Dissolved	DNQ	10	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/24/2012	Mercury	Total	DNQ	36	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Nickel	Dissolved	=	1.5	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Nickel	Total	=	8.9	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Selenium	Dissolved	=	1	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Selenium	Total	=	1.3	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Thallium	Total	DNQ	0.02	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Zinc	Dissolved	=	6.3	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/28/2012	Zinc	Total	=	62	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/27/2012	Ammonia as N	n/a	=	0.27	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/22/2012	Nitrate + Nitrite as N	n/a	=	0.8	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Phosphorus as P	Dissolved	=	0.18	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Phosphorus as P	Total	=	0.6	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/2/2012	TKN	n/a	=	2.4	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	3-4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Benzdine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.9	µg/L	EPA 525.2	1.1	3	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Diethyl phthalate	n/a	DNQ	0.76	µg/L	EPA 625	0.15	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Dimethyl phthalate	n/a	=	8.6	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	4,4'-DDE	n/a	DNQ	0.0029	µg/L	EPA 608	0.0025	0.05	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/23/2012	Glyphosate	n/a	=	18	µg/L	EPA 547	1.8	5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Malathion	n/a	=	0.02	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2011/12-2	Wet	1/21/2012 11:30:00 AM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/18/2012 7:00:00 AM	E. Coli	n/a	=	11199	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/21/2012 11:20:00 AM	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/18/2012 7:00:00 AM	Total Coliform	n/a	=	129970	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/17/2012 9:00:00 AM	Conductivity	n/a	=	1003	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/17/2012 9:00:00 AM	DO	n/a	=	9.51	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/17/2012 9:00:00 AM	DO	n/a	=	91.3	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/17/2012 9:00:00 AM	pH	n/a	=	8.3	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/17/2012 9:00:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/17/2012 9:00:00 AM	Specific Conductance	n/a	=	1260	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/17/2012 9:00:00 AM	Temperature	n/a	=	13.7	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/20/2012	Oil and Grease	n/a	DNQ	3.9	mg/L	EPA 1664A	1.3	5	WKL	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/20/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-THO	2011/12-3	Wet	3/17/2012 9:00:00 AM	3/20/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/21/2012	Chloride	n/a	=	45	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/21/2012	Fluoride	n/a	=	0.22	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/27/2012	Calcium	Total	=	37	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/27/2012	Magnesium	Total	=	21	mg/L	EPA 200.7	0.012	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	90	mg/L	SM 2320 B	0.56	2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	BOD	n/a	=	12	mg/L	SM 5210 B	0.1	2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/23/2012	COD	n/a	=	72	mg/L	EPA 410.4	0.73	5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/27/2012	Hardness as CaCO3	Total	=	180	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/19/2012	MBAS	n/a	DNQ	0.035	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.54	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/29/2012	Phenolics	n/a	=	0.025	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/20/2012	Specific Conductance	n/a	=	420	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	250	mg/L	SM 2540 C	4	10	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/22/2012	Total Organic Carbon	n/a	=	8.9	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/23/2012	Total Suspended Solids	n/a	=	200	mg/L	SM 2540 D	5	5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/19/2012	Turbidity	n/a	=	110	NTU	EPA 180.1	0.024	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/23/2012	Volatile Suspended Solids	n/a	=	36	mg/L	EPA 160.4	3.1	5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Aluminum	Dissolved	=	14	µg/L	EPA 200.8	0.61	5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Aluminum	Total	=	4100	µg/L	EPA 200.8	0.61	5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Antimony	Dissolved	=	0.52	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Antimony	Total	=	0.79	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Arsenic	Dissolved	=	1.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Arsenic	Total	=	2.9	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Beryllium	Total	=	0.18	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Cadmium	Dissolved	DNQ	0.046	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Cadmium	Total	=	0.51	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Chromium	Dissolved	=	0.36	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Chromium	Total	=	14	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/20/2012	Chromium VI	n/a	DNQ	0.21	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Copper	Dissolved	=	3.1	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Copper	Total	=	22	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/27/2012	Iron	Dissolved	=	55	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/27/2012	Iron	Total	=	7300	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Lead	Dissolved	DNQ	0.084	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Lead	Total	=	5.4	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/22/2012	Mercury	Dissolved	DNQ	32	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/22/2012	Mercury	Total	=	53	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Nickel	Dissolved	=	2.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Nickel	Total	=	17	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Selenium	Dissolved	=	0.82	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Selenium	Total	=	1.5	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Silver	Total	DNQ	0.17	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Thallium	Total	DNQ	0.073	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Zinc	Dissolved	=	5.6	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/4/2012	Zinc	Total	=	80	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/27/2012	Ammonia as N	n/a	=	0.31	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	0.51	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.16	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/30/2012	Phosphorus as P	Total	=	0.63	mg/L	EPA 365.1	0.035	0.25	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/29/2012	TKN	n/a	=	1.7	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Benzenzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Diethyl phthalate	n/a	DNQ	0.96	µg/L	EPA 625	0.15	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Dimethyl phthalate	n/a	=	10	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	4,4'-DDT	n/a	DNQ	0.0033	µg/L	EPA 608	0.0031	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	EUM
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Fensulfotion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/19/2012	Glyphosate	n/a	DNQ	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Malathion	n/a	=	0.016	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/24/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Ronnel (Fenclorophos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	4/3/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-3	Wet	3/18/2012 9:52:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/7/2012	Chloride	n/a	=	250	mg/L	EPA 300.0	1	5	WKL	D
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/7/2012	Fluoride	n/a	=	0.4	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/1/2012	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/25/2012 9:15:00 AM	E. Coli	n/a	=	2481	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/27/2012 1:10:00 PM	Fecal Coliform	n/a	=	2400	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/25/2012 9:15:00 AM	Total Coliform	n/a	=	9804	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/4/2012	Calcium	Total	=	110	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/4/2012	Magnesium	Total	=	100	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/30/2012	Alkalinity as CaCO3	n/a	=	360	mg/L	SM 2320 B	0.56	10	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/30/2012	BOD	n/a	DNQ	0.84	mg/L	SM 5210 B	0.1	2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/1/2012	COD	n/a	DNQ	4.8	mg/L	EPA 410.4	0.73	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/24/2012 10:05:00 AM	Conductivity	n/a	=	1660	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/7/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/24/2012 10:05:00 AM	DO	n/a	=	96.4	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/24/2012 10:05:00 AM	DO	n/a	=	9.2	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/4/2012	Hardness as CaCO3	Total	=	710	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/25/2012	MBAS	n/a	DNQ	0.02	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/24/2012 10:05:00 AM	pH	n/a	=	8.24	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Phenolics	n/a	DNQ	0.0077	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/24/2012 10:05:00 AM	Salinity	n/a	=	1000	mg/L	Field Meter	-88	100	Field Crew	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/24/2012 10:05:00 AM	Specific Conductance	n/a	=	1935	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/31/2012	Specific Conductance	n/a	=	2000	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/24/2012 10:05:00 AM	Temperature	n/a	=	17.5	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/30/2012	Total Dissolved Solids	n/a	=	910	mg/L	SM 2540 C	4	10	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/4/2012	Total Organic Carbon	n/a	=	3.2	mg/L	SM 5310 C	0.018	0.6	WKL	D
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/30/2012	Total Suspended Solids	n/a	=	6	mg/L	SM 2540 D	5	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/25/2012	Turbidity	n/a	=	1.4	NTU	EPA 180.1	0.024	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/30/2012	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/4/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/4/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Aluminum	Dissolved	DNQ	1.5	µg/L	EPA 200.8	0.61	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Aluminum	Total	=	22	µg/L	EPA 200.8	0.61	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Antimony	Dissolved	DNQ	0.17	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Antimony	Total	DNQ	0.16	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Arsenic	Dissolved	=	2.6	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Arsenic	Total	=	2.6	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Cadmium	Dissolved	DNQ	0.038	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Cadmium	Total	DNQ	0.043	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Chromium	Dissolved	=	0.33	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Chromium	Total	=	0.44	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Copper	Dissolved	=	1.5	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Copper	Total	=	2	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/4/2012	Iron	Dissolved	<	1.1	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/4/2012	Iron	Total	=	28	µg/L	EPA 200.7	1.1	10	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Lead	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Lead	Total	DNQ	0.039	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Mercury	Dissolved	DNQ	14	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Mercury	Total	DNQ	5	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Nickel	Dissolved	=	3.5	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Nickel	Total	=	3.9	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Selenium	Dissolved	=	2.1	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Selenium	Total	=	2.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Thallium	Total	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Zinc	Dissolved	DNQ	2.6	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/6/2012	Zinc	Total	DNQ	3.1	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/25/2012	Nitrate + Nitrite as N	n/a	=	0.21	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/11/2012	Phosphorus as P	Dissolved	=	0.01	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/11/2012	Phosphorus as P	Total	=	0.015	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	TKN	n/a	=	0.44	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/25/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Benidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Diethyl phthalate	n/a	=	1.1	µg/L	EPA 625	0.15	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Dimethyl phthalate	n/a	=	1.4	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/25/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	5/29/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/5/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/8/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2011/12-4	Dry	5/24/2012 10:05:00 AM	6/2/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/17/2012 6:48:00 AM	E. Coli	n/a	=	20	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/17/2012 6:48:00 AM	Total Coliform	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/24/2012	Calcium	Total	=	97	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/24/2012	Magnesium	Total	=	100	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/16/2012 9:40:00 AM	Conductivity	n/a	=	1734	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/16/2012 9:40:00 AM	Discharge	n/a	=	1	cfs	Field Meter	-88	-88	Field Crew	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/16/2012 9:40:00 AM	DO	n/a	=	91.4	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/16/2012 9:40:00 AM	DO	n/a	=	8.36	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/24/2012	Hardness as CaCO3	Total	=	670	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/16/2012 9:40:00 AM	pH	n/a	=	8.24	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/16/2012 9:40:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/16/2012 9:40:00 AM	Specific Conductance	n/a	=	1943	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/16/2012 9:40:00 AM	Temperature	n/a	=	19.4	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/22/2012	Total Organic Carbon	n/a	=	3.2	mg/L	SM 5310 C	0.018	0.6	WKL	D
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/16/2012 9:40:00 AM	Turbidity	n/a	=	1.13	NTU	Field Meter	-88	0.01	Field Crew	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/24/2012	Copper	Dissolved	=	0.59	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/24/2012	Copper	Total	=	0.65	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/24/2012	Lead	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/24/2012	Lead	Total	DNQ	0.03	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/24/2012	Zinc	Dissolved	DNQ	2.2	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2012-DRY	Dry	8/16/2012 9:40:00 AM	8/24/2012	Zinc	Total	DNQ	1.2	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/6/2011 8:50:00 AM	E. Coli	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/8/2011 12:15:00 PM	Fecal Coliform	n/a	=	2400	MPN/100 mL	SM 9221 E	2	2	VCHCA	FDP
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/6/2011 8:50:00 AM	Total Coliform	n/a	=	261300	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/5/2011 6:30:00 AM	Conductivity	n/a	=	320.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/17/2011	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/5/2011 6:30:00 AM	DO	n/a	=	8.5	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/5/2011 6:30:00 AM	DO	n/a	=	88.2	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/5/2011 6:30:00 AM	pH	n/a	=	7.84	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/5/2011 6:30:00 AM	Salinity	n/a	=	200	mg/L	Field Meter	-88	100	Field Crew	
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/5/2011 6:30:00 AM	Specific Conductance	n/a	=	376	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/5/2011 6:30:00 AM	Temperature	n/a	=	17.2	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/10/2011	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/10/2011	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/7/2011	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 6:30:00 AM	10/7/2011	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/11/2011	Chloride	n/a	=	19	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/11/2011	Fluoride	n/a	=	0.22	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/10/2011	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Calcium	Total	=	41	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Magnesium	Total	=	14	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/17/2011	Alkalinity as CaCO3	n/a	=	91	mg/L	SM 2320 B	0.56	2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	BOD	n/a	=	16	mg/L	SM 5210 B	0.1	2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/10/2011	COD	n/a	=	170	mg/L	EPA 410.4	0.73	5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Hardness as CaCO3	Total	=	160	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/6/2011	MBAS	n/a	=	0.24	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/17/2011	Phenolics	n/a	=	0.12	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/17/2011	Specific Conductance	n/a	=	400	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/10/2011	Total Dissolved Solids	n/a	=	230	mg/L	SM 2540 C	4	10	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/26/2011	Total Organic Carbon	n/a	=	18	mg/L	SM 5310 C	0.09	3	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/10/2011	Total Suspended Solids	n/a	=	600	mg/L	SM 2540 D	5	5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/6/2011	Turbidity	n/a	=	89	NTU	EPA 180.1	0.024	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/10/2011	Volatile Suspended Solids	n/a	=	150	mg/L	EPA 160.4	3.1	5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Aluminum	Dissolved	=	31	µg/L	EPA 200.8	0.61	5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Aluminum	Total	=	3900	µg/L	EPA 200.8	6.1	50	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Antimony	Dissolved	=	0.83	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Antimony	Total	=	2	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Arsenic	Total	=	4.7	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/18/2011	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/18/2011	Beryllium	Total	=	0.19	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Cadmium	Dissolved	DNQ	0.057	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Cadmium	Total	=	0.64	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Chromium	Dissolved	=	1.1	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Chromium	Total	=	9.4	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/6/2011	Chromium VI	n/a	=	0.73	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Copper	Dissolved	=	8.4	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Copper	Total	=	120	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Iron	Dissolved	=	120	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Iron	Total	=	7400	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Lead	Dissolved	=	1.2	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Lead	Total	=	32	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/10/2011	Mercury	Dissolved	DNQ	26	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/10/2011	Mercury	Total	DNQ	47	ng/L	EPA 245.1	3.9	50	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Nickel	Dissolved	=	3.4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Nickel	Total	=	15	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Selenium	Dissolved	=	0.72	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Selenium	Total	=	1.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Silver	Total	DNQ	0.15	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Thallium	Dissolved	DNQ	0.015	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Thallium	Total	DNQ	0.079	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Zinc	Dissolved	=	24	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Zinc	Total	=	350	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/12/2011	Ammonia as N	n/a	=	0.49	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/18/2011	Nitrate + Nitrite as N	n/a	=	1.1	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/19/2011	Phosphorus as P	Dissolved	=	0.11	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/14/2011	Phosphorus as P	Total	=	1.1	mg/L	EPA 365.1	0.035	0.25	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/17/2011	TKN	n/a	=	3.9	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Acenaphthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Acenaphthylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	Anthracene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Benz(a)anthracene	n/a	<	2.8	µg/L	EPA 8270Cm	2.8	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	Benzo(b)fluoranthene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Benzo(g,h,i)perylene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	Benzo(k)fluoranthene	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.7	µg/L	EPA 525.2	1.1	3	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Chrysene	n/a	<	0.9	µg/L	EPA 8270Cm	0.9	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Dibenz(a,h)anthracene	n/a	<	1.3	µg/L	EPA 8270Cm	1.3	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Fluoranthene	n/a	<	2	µg/L	EPA 8270Cm	2	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	Fluorene	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Naphthalene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	Phenanthrene	n/a	<	1.1	µg/L	EPA 8270Cm	1.1	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/24/2011	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Pyrene	n/a	<	2.1	µg/L	EPA 8270Cm	2.1	5	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	2,4-DB	n/a	DNQ	1.6	µg/L	EPA 515.3	0.07	2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	4,4'-DDE	n/a	DNQ	0.018	µg/L	EPA 608	0.0025	0.05	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	4,4'-DDT	n/a	=	0.01	µg/L	EPA 608	0.0031	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EUM
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM, IL
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	IL
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	EUM
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Ethioprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/10/2011	Glyphosate	n/a	=	40	µg/L	EPA 547	3.6	10	WKL	D
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Malathion	n/a	=	0.17	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	Pentachlorophenol	n/a	DNQ	0.11	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/13/2011	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Toxothion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/25/2011	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/20/2011	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2011/12-1	Wet	10/5/2011 1:50:00 PM	10/27/2011	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/22/2012 4:00:00 AM	E. Coli	n/a	=	17329	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/25/2012 8:52:00 AM	Fecal Coliform	n/a	=	16000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/22/2012 4:00:00 AM	Total Coliform	n/a	=	579940	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/21/2012 2:10:00 AM	Conductivity	n/a	=	64.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	2/3/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/21/2012 2:10:00 AM	DO	n/a	=	9.47	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/21/2012 2:10:00 AM	DO	n/a	=	92.6	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/21/2012 2:10:00 AM	pH	n/a	=	7.68	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/21/2012 2:10:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/21/2012 2:10:00 AM	Specific Conductance	n/a	=	107.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/21/2012 2:10:00 AM	Temperature	n/a	=	13.4	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/23/2012	Oil and Grease	n/a	DNQ	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/23/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/23/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 2:10:00 AM	1/23/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/26/2012	Chloride	n/a	=	5.9	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/26/2012	Fluoride	n/a	=	0.19	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/27/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/24/2012	Calcium	Total	=	15	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/24/2012	Magnesium	Total	=	3.5	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Alkalinity as CaCO3	n/a	=	33	mg/L	SM 2320 B	0.56	2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/27/2012	BOD	n/a	=	7.8	mg/L	SM 5210 B	0.1	2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/26/2012	COD	n/a	=	83	mg/L	EPA 410.4	0.73	5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/24/2012	Hardness as CaCO3	Total	=	52	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/22/2012	MBAS	n/a	=	0.22	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Phenolics	n/a	=	0.022	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Specific Conductance	n/a	=	170	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/25/2012	Total Dissolved Solids	n/a	=	100	mg/L	SM 2540 C	4	10	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/26/2012	Total Organic Carbon	n/a	=	15	mg/L	SM 5310 C	0.09	3	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/26/2012	Total Suspended Solids	n/a	=	84	mg/L	SM 2540 D	5	5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/22/2012	Turbidity	n/a	=	12	NTU	EPA 180.1	0.024	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/26/2012	Volatile Suspended Solids	n/a	=	28	mg/L	EPA 160.4	3.1	5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Aluminum	Dissolved	=	24	µg/L	EPA 200.8	0.61	5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Aluminum	Total	=	1300	µg/L	EPA 200.8	0.61	5	WKL	GB
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Antimony	Dissolved	=	0.6	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Antimony	Total	=	1.2	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Arsenic	Dissolved	=	0.92	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Arsenic	Total	=	1.9	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Cadmium	Dissolved	DNQ	0.041	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Cadmium	Total	=	0.23	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Chromium	Dissolved	=	0.54	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Chromium	Total	=	3	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/23/2012	Chromium VI	n/a	DNQ	0.25	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Copper	Dissolved	=	11	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Copper	Total	=	23	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/24/2012	Iron	Dissolved	=	69	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/24/2012	Iron	Total	=	2200	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Lead	Dissolved	=	0.48	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Lead	Total	=	6.4	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/25/2012	Mercury	Dissolved	DNQ	23	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/25/2012	Mercury	Total	DNQ	25	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Nickel	Dissolved	=	2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Nickel	Total	=	5.4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Selenium	Dissolved	=	0.44	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Selenium	Total	DNQ	0.39	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Silver	Total	DNQ	0.044	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Thallium	Total	DNQ	0.022	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Zinc	Dissolved	=	30	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Zinc	Total	=	150	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/27/2012	Ammonia as N	n/a	=	0.61	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/21/2012 5:30:00 PM	Nitrate + Nitrite as N	n/a	=	0.74	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Phosphorus as P	Dissolved	=	0.24	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Phosphorus as P	Total	=	0.45	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/2/2012	TKN	n/a	=	2.2	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	1,2,4-Trichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	1,2-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	1,2-Diphenylhydrazine	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	1,3-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	1,4-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	2,4-Dinitrotoluene	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	2,6-Dinitrotoluene	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	2-Chloronaphthalene	n/a	<	0.9	µg/L	EPA 625	0.9	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	3,3'-Dichlorobenzidine	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.82	µg/L	EPA 625	0.82	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Benzdine	n/a	<	7.3	µg/L	EPA 625	7.3	20	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.76	µg/L	EPA 625	0.76	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Bis(2-ethylhexyl)phthalate	n/a	=	3.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Butyl benzyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Diethyl phthalate	n/a	DNQ	0.7	µg/L	EPA 625	0.3	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Dimethyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Di-n-butylphthalate	n/a	DNQ	0.56	µg/L	EPA 625	0.48	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Di-n-octylphthalate	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Hexachlorobenzene	n/a	<	0.98	µg/L	EPA 625	0.98	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Hexachlorobutadiene	n/a	<	0.94	µg/L	EPA 625	0.94	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Hexachlorocyclopentadiene	n/a	<	2.9	µg/L	EPA 625	2.9	10	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Hexachloroethane	n/a	<	1	µg/L	EPA 625	1	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Isophorone	n/a	<	0.42	µg/L	EPA 625	0.42	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	Nitrobenzene	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	N-Nitrosodimethylamine	n/a	<	0.28	µg/L	EPA 625	0.28	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.52	µg/L	EPA 625	0.52	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/6/2012	N-Nitrosodiphenylamine	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	4,4'-DDE	n/a	DNQ	0.0099	µg/L	EPA 608	0.0025	0.05	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	4,4'-DDT	n/a	DNQ	0.008	µg/L	EPA 608	0.0031	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	

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Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Fensulfthion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	gamma-BHC-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/23/2012	Glyphosate	n/a	=	16	µg/L	EPA 547	1.8	5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	Pentachlorophenol	n/a	DNQ	0.064	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/1/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	2/3/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2011/12-2	Wet	1/21/2012 8:15:00 AM	1/31/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/18/2012 7:00:00 AM	E. Coli	n/a	=	4352	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/21/2012 11:06:00 AM	Fecal Coliform	n/a	=	14000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/18/2012 7:00:00 AM	Total Coliform	n/a	=	81640	MPN/100 mL	MMO-MUG	100	100	VCHCA	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/17/2012 8:10:00 AM	Conductivity	n/a	=	89.9	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	4/5/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/17/2012 8:10:00 AM	DO	n/a	=	91.1	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/17/2012 8:10:00 AM	DO	n/a	=	9.46	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/17/2012 8:10:00 AM	pH	n/a	=	7.7	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/17/2012 8:10:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/17/2012 8:10:00 AM	Specific Conductance	n/a	=	114.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/17/2012 8:10:00 AM	Temperature	n/a	=	13.8	°C	Field Meter	-88	0.1	Field Crew	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/20/2012	Oil and Grease	n/a	DNQ	2.7	mg/L	EPA 1664A	1.3	5	WKL	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/20/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/19/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-VEN	2011/12-3	Wet	3/17/2012 8:10:00 AM	3/19/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/21/2012	Chloride	n/a	=	18	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/21/2012	Fluoride	n/a	=	0.2	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/23/2012	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/26/2012	Calcium	Total	=	35	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/26/2012	Magnesium	Total	=	9.9	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/27/2012	Alkalinity as CaCO3	n/a	=	100	mg/L	SM 2320 B	0.56	2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	BOD	n/a	=	25	mg/L	SM 5210 B	0.1	2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/23/2012	COD	n/a	=	130	mg/L	EPA 410.4	0.73	5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/26/2012	Hardness as CaCO3	Total	=	130	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/19/2012	MBAS	n/a	=	0.16	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/18/2012 6:37:00 PM	pH	n/a	=	7.44	pH Units	SM 4500-H+ B	0.1	0.1	WKL	BV
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/29/2012	Phenolics	n/a	=	0.033	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/20/2012	Specific Conductance	n/a	=	370	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/22/2012	Total Dissolved Solids	n/a	=	220	mg/L	SM 2540 C	4	10	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/22/2012	Total Organic Carbon	n/a	=	17	mg/L	SM 5310 C	0.072	2.4	WKL	D
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/21/2012	Total Suspended Solids	n/a	=	460	mg/L	SM 2540 D	5	5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/19/2012	Turbidity	n/a	=	140	NTU	EPA 180.1	0.024	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/21/2012	Volatile Suspended Solids	n/a	=	100	mg/L	EPA 160.4	3.1	5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Aluminum	Dissolved	=	24	µg/L	EPA 200.8	0.61	5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Aluminum	Total	=	2300	µg/L	EPA 200.8	0.61	5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Antimony	Dissolved	=	0.86	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Antimony	Total	=	1.8	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Arsenic	Total	=	3	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Beryllium	Total	=	0.11	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Cadmium	Dissolved	DNQ	0.053	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Cadmium	Total	=	0.39	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Chromium	Dissolved	=	0.75	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Chromium	Total	=	5.7	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/20/2012	Chromium VI	n/a	=	0.49	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Copper	Dissolved	=	8.9	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Copper	Total	=	36	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/26/2012	Iron	Dissolved	=	77	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/26/2012	Iron	Total	=	4200	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Lead	Dissolved	=	0.48	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Lead	Total	=	13	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/22/2012	Mercury	Dissolved	DNQ	33	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/22/2012	Mercury	Total	DNQ	49	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Nickel	Dissolved	=	2.8	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Nickel	Total	=	9.1	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Selenium	Dissolved	=	0.83	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Selenium	Total	=	1.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Silver	Total	DNQ	0.052	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Thallium	Total	DNQ	0.044	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Zinc	Dissolved	=	23	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/4/2012	Zinc	Total	=	220	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/27/2012	Ammonia as N	n/a	=	0.35	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/20/2012	Nitrate + Nitrite as N	n/a	=	0.7	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/2/2012	Phosphorus as P	Dissolved	=	0.16	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Phosphorus as P	Total	=	0.67	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/29/2012	TKN	n/a	=	2.9	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	IL
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Benizidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Bis(2-ethylhexyl)phthalate	n/a	=	3.9	µg/L	EPA 525.2	1.1	3	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Butyl benzyl phthalate	n/a	DNQ	0.86	µg/L	EPA 625	0.18	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Chrysene	n/a	DNQ	0.13	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Diethyl phthalate	n/a	DNQ	0.8	µg/L	EPA 625	0.15	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Di-n-butylphthalate	n/a	DNQ	0.53	µg/L	EPA 625	0.24	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Fluoranthene	n/a	DNQ	0.25	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	IL
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	IL
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	IL
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/6/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Phenanthrene	n/a	DNQ	0.19	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/10/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	4,4'-DDE	n/a	DNQ	0.0099	µg/L	EPA 608	0.0025	0.05	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	4,4'-DDT	n/a	DNQ	0.0057	µg/L	EPA 608	0.0031	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Chlorpyrifam	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Fensulfthion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/19/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	Pentachlorophenol	n/a	DNQ	0.18	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/24/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	EUM
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	4/7/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/30/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2011/12-3	Wet	3/18/2012 9:05:00 AM	3/28/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/1/2012	Chloride	n/a	=	530	mg/L	EPA 300.0	1	5	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/1/2012	Fluoride	n/a	=	0.9	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Perchlorate	n/a	<	9.5	µg/L	EPA 314.0	9.5	20	WCLA	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/23/2012 9:00:00 AM	E. Coli	n/a	=	31	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/26/2012 12:48:00 PM	Fecal Coliform	n/a	=	70	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/23/2012 9:00:00 AM	Total Coliform	n/a	>	2419200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/1/2012	Calcium	Total	=	320	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/1/2012	Magnesium	Total	=	290	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Alkalinity as CaCO3	n/a	=	180	mg/L	SM 2320 B	0.56	10	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	BOD	n/a	=	12	mg/L	SM 5210 B	0.1	2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/24/2012	COD	n/a	=	140	mg/L	EPA 410.4	0.73	5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/22/2012 10:25:00 AM	Conductivity	n/a	=	8550	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/7/2012	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	GB
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/22/2012 10:25:00 AM	DO	n/a	=	13.47	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/22/2012 10:25:00 AM	DO	n/a	=	180.4	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/1/2012	Hardness as CaCO3	Total	=	2000	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/23/2012	MBAS	n/a	=	0.37	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/22/2012 10:25:00 AM	pH	n/a	=	8.69	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	Phenolics	n/a	=	0.077	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/22/2012 10:25:00 AM	Salinity	n/a	=	4400	mg/L	Field Meter	-88	100	Field Crew	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/25/2012	Specific Conductance	n/a	=	11000	µmhos/cm	SM 2510 B	2.3	20	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/22/2012 10:25:00 AM	Specific Conductance	n/a	=	7990	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/22/2012 10:25:00 AM	Temperature	n/a	=	28.6	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/25/2012	Total Dissolved Solids	n/a	=	4600	mg/L	SM 2540 C	4	10	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/1/2012	Total Organic Carbon	n/a	=	47	mg/L	SM 5310 C	0.18	6	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/24/2012	Total Suspended Solids	n/a	=	13	mg/L	SM 2540 D	5	5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/23/2012	Turbidity	n/a	=	2.8	NTU	EPA 180.1	0.024	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/24/2012	Volatile Suspended Solids	n/a	=	6	mg/L	EPA 160.4	3.1	5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Aluminum	Dissolved	DNQ	2.7	µg/L	EPA 200.8	1.2	10	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Aluminum	Total	=	11	µg/L	EPA 200.8	1.2	10	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Antimony	Dissolved	=	1.7	µg/L	EPA 200.8	0.08	1	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Antimony	Total	=	1.7	µg/L	EPA 200.8	0.08	1	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Arsenic	Dissolved	=	9	µg/L	EPA 200.8	0.072	0.8	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Arsenic	Total	=	9.2	µg/L	EPA 200.8	0.072	0.8	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Beryllium	Dissolved	<	0.18	µg/L	EPA 200.8	0.18	0.2	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Beryllium	Total	<	0.18	µg/L	EPA 200.8	0.18	0.2	WKL	D

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Cadmium	Dissolved	=	0.25	µg/L	EPA 200.8	0.04	0.2	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Cadmium	Total	=	0.24	µg/L	EPA 200.8	0.04	0.2	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Chromium	Dissolved	DNQ	0.25	µg/L	EPA 200.8	0.15	0.4	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Chromium	Total	DNQ	0.27	µg/L	EPA 200.8	0.15	0.4	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/1/2012	Chromium VI	n/a	DNQ	0.056	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Copper	Dissolved	=	79	µg/L	EPA 200.8	0.54	1	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Copper	Total	=	84	µg/L	EPA 200.8	0.54	1	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/1/2012	Iron	Dissolved	=	15	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/1/2012	Iron	Total	=	44	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Lead	Dissolved	=	1.8	µg/L	EPA 200.8	0.022	0.4	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Lead	Total	=	2	µg/L	EPA 200.8	0.022	0.4	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Mercury	Dissolved	DNQ	19	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Mercury	Total	DNQ	19	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Nickel	Dissolved	=	4.9	µg/L	EPA 200.8	0.26	1.6	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Nickel	Total	=	5	µg/L	EPA 200.8	0.26	1.6	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Selenium	Dissolved	=	16	µg/L	EPA 200.8	0.56	0.8	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Selenium	Total	=	15	µg/L	EPA 200.8	0.56	0.8	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Silver	Dissolved	<	0.054	µg/L	EPA 200.8	0.054	0.4	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Silver	Total	<	0.054	µg/L	EPA 200.8	0.054	0.4	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Thallium	Dissolved	<	0.018	µg/L	EPA 200.8	0.018	0.4	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Thallium	Total	<	0.018	µg/L	EPA 200.8	0.018	0.4	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Zinc	Dissolved	=	20	µg/L	EPA 200.8	2.3	10	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Zinc	Total	=	20	µg/L	EPA 200.8	2.3	10	WKL	D
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/5/2012	Ammonia as N	n/a	=	0.17	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/23/2012	Nitrate + Nitrite as N	n/a	DNQ	0.023	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Phosphorus as P	Dissolved	=	0.028	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Phosphorus as P	Total	=	0.065	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/7/2012	TKN	n/a	=	3.3	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/24/2012	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	GB
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Acenaphthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Acenaphthylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Anthracene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Benz(a)anthracene	n/a	<	0.28	µg/L	EPA 8270Cm	0.28	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Benzenidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Benzo(b)fluoranthene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Benzo(g,h,i)perylene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Benzo(k)fluoranthene	n/a	<	0.12	µg/L	EPA 8270Cm	0.12	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Chrysene	n/a	<	0.09	µg/L	EPA 8270Cm	0.09	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Dibenz(a,h)anthracene	n/a	<	0.13	µg/L	EPA 8270Cm	0.13	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Diethyl phthalate	n/a	DNQ	0.8	µg/L	EPA 625	0.15	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Fluoranthene	n/a	<	0.2	µg/L	EPA 8270Cm	0.2	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Fluorene	n/a	<	0.15	µg/L	EPA 8270Cm	0.15	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/24/2012	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Naphthalene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/31/2012	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Phenanthrene	n/a	<	0.11	µg/L	EPA 8270Cm	0.11	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Pyrene	n/a	<	0.21	µg/L	EPA 8270Cm	0.21	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	GB
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	GB
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Chlorpropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	



Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/29/2012	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	GB
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/4/2012	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Ronnel (Fenclorophos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	5/30/2012	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/6/2012	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2011/12-4	Dry	5/22/2012 10:25:00 AM	6/2/2012	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/16/2012 8:35:00 AM	E. Coli	n/a	=	10	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/16/2012 8:35:00 AM	Total Coliform	n/a	>	2419200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/28/2012	Calcium	Total	=	310	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/28/2012	Magnesium	Total	=	270	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/15/2012 10:30:00 AM	Conductivity	n/a	=	8180	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/15/2012 10:30:00 AM	Discharge	n/a	=	0.02	cfs	Field Meter	-88	-88	Field Crew	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/15/2012 10:30:00 AM	DO	n/a	=	101.3	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/15/2012 10:30:00 AM	DO	n/a	=	7.4	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/28/2012	Hardness as CaCO3	Total	=	1900	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/15/2012 10:30:00 AM	pH	n/a	=	8.76	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/15/2012 10:30:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/15/2012 10:30:00 AM	Specific Conductance	n/a	=	8120	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/15/2012 10:30:00 AM	Temperature	n/a	=	29.2	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/22/2012	Total Organic Carbon	n/a	=	63	mg/L	SM 5310 C	0.18	6	WKL	D
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/15/2012 10:30:00 AM	Turbidity	n/a	=	12.63	NTU	Field Meter	-88	0.01	Field Crew	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/28/2012	Copper	Dissolved	=	87	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/28/2012	Copper	Total	=	130	µg/L	EPA 200.8	0.27	0.5	WKL	

Appendix G  
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/28/2012	Lead	Dissolved	=	1	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/28/2012	Lead	Total	=	3	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/28/2012	Zinc	Dissolved	=	18	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2012-DRY	Dry	8/15/2012 10:30:00 AM	8/28/2012	Zinc	Total	=	62	µg/L	EPA 200.8	1.1	5	WKL	

## **Appendix H. RWQCB Permission of Toxicity Species Substitution**



# California Regional Water Quality Control Board Los Angeles Region



Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Linda S. Adams  
Agency Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013  
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: <http://www.waterboards.ca.gov/losangeles>

Arnold Schwarzenegger  
Governor

October 28, 2009

Ms. Norma Camacho, Director  
Ventura County Watershed Protection District  
800 South Victoria Ave., L#1600  
Ventura, CA 93009-1600

Certified Mail  
Return Receipt Requested  
Claim No. 7009 0820 0001 6811 7509

**SUBJECT: TOXICITY TEST SPECIES SUBSTITUTION, VENTURA COUNTY  
MUNICIPAL SEPARATE STORM SEWER SYSTEM DISCHARGE (MS4)  
PERMIT (BOARD ORDER No. 09-0057; NPDES No. CAS004002)**

Dear Ms. Camacho:

On October 14, 2009, the Regional Board staff received a request from the Ventura County Watershed Protection District (County) to substitute topsmelt, *Atherinops affinis*, with the inland silverside, *Menidia beryllina*, due to the unavailability of topsmelt from the supplier. After consultation with US EPA staff, Regional Board staff denied the request. On October 15, 2009, the Regional Board received an e-mail from the County, titled "Notification of toxicity exception - (species unavailable) Ventura County MS4 NPDES Permit Order No. 09-0057 (Monitoring Program)". The County's e-mail communication was submitted pursuant to requirements in subparts D.5 and D.8(b) of the Ventura County MS4 Permit's Monitoring Program (Monitoring Program), which requires an explanation of the circumstance with documentation when toxicity tests cannot be performed to comply with the requirements of this permit, and written authorization from the Regional Board Executive Officer to substitute test species.

In order to evaluate the appropriateness of substituting topsmelt, *Atherinops affinis*, with the inland silverside, *Menidia beryllina*, in toxicity testing at mass emissions stations in the future, the Regional Board requires the County to conduct comparative static renewal toxicity tests on both species as follows. During the next storm event of this permit year (2009-10) and the first storm event of next permit year (2010-11), the County shall conduct toxicity tests on both topsmelt, *Atherinops affinis*, and the inland silverside, *Menidia beryllina*, along with giant kelp, *Macrocystis pyrifera*, and the purple sea urchin, *Strongylocentrotus purpuratus*, pursuant to subpart D.8(a) of the Monitoring Program. The County shall submit the results of the comparative toxicity tests as part of its reporting requirements.

RECEIVED

NOV 5 2009

California Environmental Protection Agency

Ms. Norma Camacho, Director  
Ventura County Watershed Protection District

- 2 of 2 -

October 28, 2009

In the event that topsmelt, *Atherinops affinis*, is unavailable for testing during future sampling events conducted under the Monitoring Program, the County shall follow the protocol set forth in subpart D.5 of the Monitoring Program. The County shall notify the Regional Board by phone and e-mail as soon as possible if a test species is unavailable. Notification shall be sent directly to me as well as Tracy Woods, Stormwater Permitting Unit, with a copy to Renee Purdy, Chief, Regional Programs Section. The County shall submit to the Regional Board documentation of species unavailability from both the County's contract lab and the contract lab's supplier at least 48 hours prior to the planned sampling event to provide adequate time for my staff to evaluate any request for species substitution. Any approval or denial of a request for species substitution must be authorized pursuant to subpart D.8(b) of the Monitoring Program.

If you have any questions, please contact me at (213) 576-6605, or Renee Purdy at (213) 576-6783.

Sincerely,



Tracy J. Egoscue,  
Executive Officer

cc: Mr. Bruce Fujimoto, Division of Water Quality, State Water Resources Control Board  
Mr. Gerhardt Hubner, Ventura County Watershed Protection District  
Mr. Arne Anselm, Ventura County Watershed Protection District

*California Environmental Protection Agency*



## **Appendix I. Aquatic Toxicity Testing Lab Results**



November 23<sup>rd</sup>, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

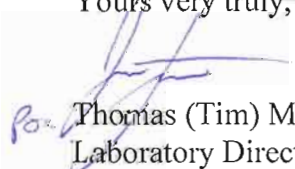
We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Estuarine Organisms, EPA/821/R-02-014*. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	ME-VR2
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.049

#### CHRONIC TOPSMELT SURVIVAL AND GROWTH BIOASSAY

Survival	NOEC =	100.00
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
Biomass	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

# CETIS Summary Report

Report Date: 21 Nov-11 11:02 (p 1 of 2)  
 Test Code: 07-2221-2048/VCF1011049tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 07-2916-8738	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:00	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 18-5842-9485	Code: VCF1011049t	Client: VCWPD
Sample Date: 05 Oct-11 10:05	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 6h (8 °C)	Station: ME-VR2	

### Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
01-0125-2766	7d Survival Rate	100	>100	N/A	15.35%	1	Steel Many-One Rank Test
07-6761-4382	Mean Dry Biomass-mg	100	>100	N/A	22.55%	1	Dunnell's Multiple Comparison Test

### Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
07-2747-2412	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
06-1882-4976	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	

### Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
01-0125-2766	7d Survival Rate	Control Resp	0.96	0.8 - NL	Yes	Result Within Limits
07-2747-2412	7d Survival Rate	Control Resp	0.96	0.8 - NL	Yes	Result Within Limits
06-1882-4976	Mean Dry Biomass-mg	Control Resp	1.56	0.85 - NL	Yes	Result Within Limits
07-6761-4382	Mean Dry Biomass-mg	Control Resp	1.56	0.85 - NL	Yes	Result Within Limits
01-0125-2766	7d Survival Rate	PMSD	0.1535	NL - 0.25	No	Result Within Limits
07-6761-4382	Mean Dry Biomass-mg	PMSD	0.2255	NL - 0.5	No	Result Within Limits

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	0.96	0.9266	0.9934	0.8	1	0.01633	0.08944	9.32%	0.0%
6.25		5	1	1	1	1	1	0	0	0.0%	-4.17%
12.5		5	0.96	0.9266	0.9934	0.8	1	0.01633	0.08944	9.32%	0.0%
25		5	0.92	0.8532	0.9868	0.6	1	0.03266	0.1789	19.44%	4.17%
50		5	0.92	0.8791	0.9609	0.8	1	0.02	0.1095	11.91%	4.17%
100		5	1	1	1	1	1	0	0	0.0%	-4.17%

### Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	1.56	1.446	1.673	1.204	2.004	0.05539	0.3034	19.45%	0.0%
6.25		5	1.723	1.672	1.773	1.612	1.884	0.0246	0.1347	7.82%	-10.46%
12.5		5	1.735	1.644	1.825	1.452	2.07	0.04425	0.2424	13.97%	-11.23%
25		5	1.587	1.456	1.718	0.998	1.902	0.06404	0.3508	22.1%	-1.74%
50		5	1.603	1.556	1.65	1.404	1.71	0.02295	0.1257	7.84%	-2.8%
100		5	1.661	1.602	1.72	1.498	1.882	0.02884	0.158	9.51%	-6.51%



# CETIS Summary Report

Report Date: 21 Nov-11 11:02 (p 2 of 2)  
Test Code: 07-2221-2048/VCF1011049tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.8	1	1	1	1
6.25		1	1	1	1	1
12.5		1	1	1	0.8	1
25		1	1	1	0.6	1
50		0.8	0.8	1	1	1
100		1	1	1	1	1

### Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.204	1.416	2.004	1.482	1.692
6.25		1.884	1.854	1.614	1.65	1.612
12.5		1.628	1.884	2.07	1.452	1.64
25		1.902	1.768	1.7	0.998	1.566
50		1.664	1.404	1.556	1.71	1.682
100		1.642	1.498	1.75	1.534	1.882

**CETIS Analytical Report**

Report Date: 21 Nov-11 11:02 (p 1 of 4)  
 Test Code: 07-2221-2048/VCF1011049tops

<b>Pacific Topsmelt 7-d Survival and Growth Test</b>			<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>		
Analysis ID: 07-6761-4382	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0			
Analyzed: 21 Nov-11 11:02	Analysis: Parametric-Control vs Treatments	Official Results: Yes			
Batch ID: 07-2916-8738	Test Type: Growth-Survival (7d)	Analyst:			
Start Date: 05 Oct-11 16:00	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater			
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable			
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:			
Sample ID: 18-5842-9485	Code: VCF1011049t	Client: VCWPD			
Sample Date: 05 Oct-11 10:05	Material: Sample Water	Project: 2010/11-1 (Wet)			
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report				
Sample Age: 6h (8 °C)	Station: ME-VR2				

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	22.55%

**Dunnett's Multiple Comparison Test**

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-1.096	2.362	0.3517	0.9873	Non-Significant Effect
		12.5	-1.176	2.362	0.3517	0.9899	Non-Significant Effect
		25	-0.1826	2.362	0.3517	0.8816	Non-Significant Effect
		50	-0.2927	2.362	0.3517	0.9054	Non-Significant Effect
		100	-0.6822	2.362	0.3517	0.9613	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1.56	0.85 - NL	Yes	Result Within Limits
PMSD	0.2255	NL - 0.5	No	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.749	2.908	0.0986	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.1340327	0.02680654	5	0.4834	0.7851	Non-Significant Effect
Error	1.330876	0.05545315	24			
Total	1.464908	0.08225969	29			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	6.596	15.09	0.2525	Equal Variances
Variances	Mod Levene Equality of Variance	0.7273	4.248	0.6120	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9746		0.6715	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.08975	0.1853	0.8184	Normal Distribution
Distribution	D'Agostino Skewness	0.9638	2.576	0.3351	Normal Distribution
Distribution	D'Agostino Kurtosis	1.214	2.576	0.2247	Normal Distribution
Distribution	D'Agostino Omnibus	2.403	9.21	0.3007	Normal Distribution

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	1.56	1.444	1.675	1.204	2.004	0.05633	0.3034	19.45%	0.0%
6.25		5	1.723	1.672	1.774	1.612	1.884	0.02502	0.1347	7.82%	-10.46%
12.5		5	1.735	1.643	1.827	1.452	2.07	0.04501	0.2424	13.97%	-11.23%
25		5	1.587	1.453	1.72	0.998	1.902	0.06513	0.3508	22.1%	-1.74%
50		5	1.603	1.555	1.651	1.404	1.71	0.02335	0.1257	7.84%	-2.8%
100		5	1.661	1.601	1.721	1.498	1.882	0.02933	0.158	9.51%	-6.51%

# CETIS Analytical Report

Report Date: 21 Nov-11 11:02 (p 2 of 4)  
 Test Code: 07-2221-2048/VCF1011049tops

Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

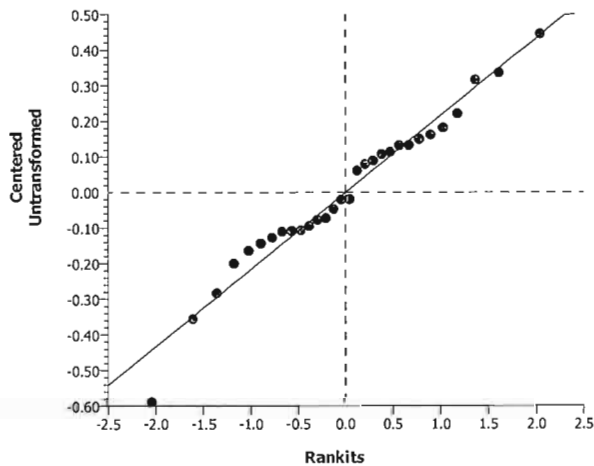
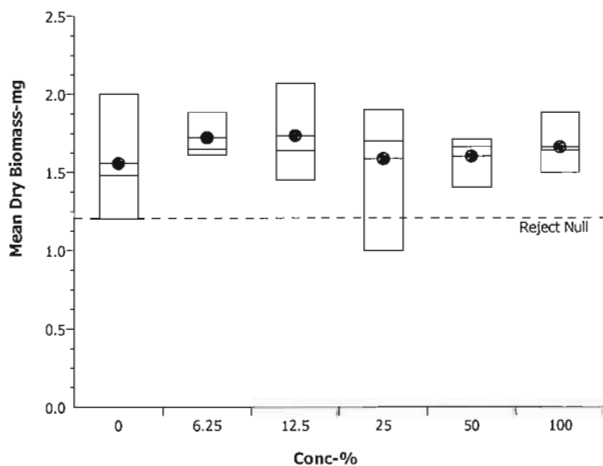
Analysis ID: 07-6761-4382      Endpoint: Mean Dry Biomass-mg  
 Analyzed: 21 Nov-11 11:02      Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

## Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.204	1.416	2.004	1.482	1.692
6.25		1.884	1.854	1.614	1.65	1.612
12.5		1.628	1.884	2.07	1.452	1.64
25		1.902	1.768	1.7	0.998	1.566
50		1.664	1.404	1.556	1.71	1.682
100		1.642	1.498	1.75	1.534	1.882

## Graphics



# CETIS Analytical Report

Report Date: 21 Nov-11 11:02 (p 3 of 4)  
 Test Code: 07-2221-2048/VCF1011049tops

Pacific Topsmelt 7-d Survival and Growth Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	01-0125-2766	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0		
Analyzed:	21 Nov-11 11:02	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes		
Batch ID:	07-2916-8738	Test Type:	Growth-Survival (7d)	Analyst:			
Start Date:	05 Oct-11 16:00	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater		
Ending Date:	12 Oct-11 16:00	Species:	Atherinops affinis	Brine:	Not Applicable		
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:			
Sample ID:	18-5842-9485	Code:	VCF1011049t	Client:	VCWPD		
Sample Date:	05 Oct-11 10:05	Material:	Sample Water	Project:	2010/11-1 (Wet)		
Receive Date:	05 Oct-11 11:25	Source:	Bioassay Report				
Sample Age:	6h (8 °C)	Station:	ME-VR2				

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	15.35%

Steel Many-One Rank Test							
Control	vs	Conc.-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	30	16	1	0.9446	Non-Significant Effect
		12.5	27.5	16	2	0.8333	Non-Significant Effect
		25	27	16	1	0.8003	Non-Significant Effect
		50	25	16	2	0.6353	Non-Significant Effect
		100	30	16	1	0.9446	Non-Significant Effect

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.8 - NL	Yes	Result Within Limits
PMSD	0.1535	NL - 0.25	No	Result Within Limits

Auxiliary Tests					
Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.457	2.908	0.0028	Outlier Detected

ANOVA Table						
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.04378957	0.008757913	5	0.6418	0.6701	Non-Significant Effect
Error	0.3274781	0.01364492	24			
Total	0.3712676	0.02240283	29			

ANOVA Assumptions					
Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	0.657	4.248	0.6603	Equal Variances
Distribution	Shapiro-Wilk Normality	0.7563		<0.0001	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.3333	0.1853	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	3.717	2.576	0.0002	Non-normal Distribution
Distribution	D'Agostino Kurtosis	2.792	2.576	0.0052	Non-normal Distribution
Distribution	D'Agostino Omnibus	21.61	9.21	<0.0001	Non-normal Distribution

# CETIS Analytical Report

Report Date: 21 Nov-11 11:02 (p 4 of 4)  
 Test Code: 07-2221-2048/VCF1011049tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 01-0125-2766      Endpoint: 7d Survival Rate      CETIS Version: CETISv1.7.0  
 Analyzed: 21 Nov-11 11:02      Analysis: Nonparametric-Control vs Treatments      Official Results: Yes

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	0.96	0.926	0.994	0.8	1	0.01661	0.08944	9.32%	0.0%
6.25		5	1	1	1	1	1	0	0	0.0%	-4.17%
12.5		5	0.96	0.926	0.994	0.8	1	0.01661	0.08944	9.32%	0.0%
25		5	0.92	0.852	0.988	0.6	1	0.03322	0.1789	19.44%	4.17%
50		5	0.92	0.8783	0.9617	0.8	1	0.02034	0.1095	11.91%	4.17%
100		5	1	1	1	1	1	0	0	0.0%	-4.17%

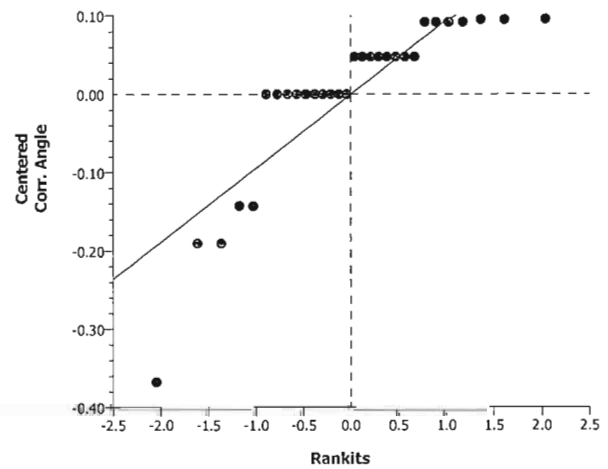
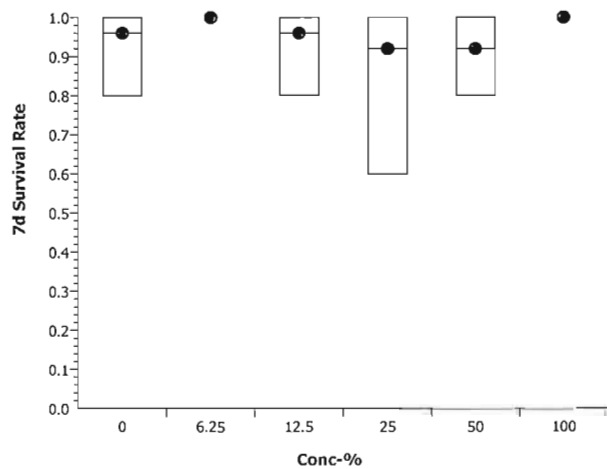
### Angular (Corrected) Transformed Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	5	1.298	1.257	1.338	1.107	1.345	0.01978	0.1065	8.21%	0.0%
6.25		5	1.345	1.345	1.345	1.345	1.345	0	0	0.0%	-3.67%
12.5		5	1.298	1.257	1.338	1.107	1.345	0.01978	0.1065	8.21%	0.0%
25		5	1.253	1.175	1.332	0.8861	1.345	0.03813	0.2054	16.38%	3.41%
50		5	1.25	1.2	1.3	1.107	1.345	0.02422	0.1304	10.43%	3.67%
100		5	1.345	1.345	1.345	1.345	1.345	0	0	0.0%	-3.67%

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.8	1	1	1	1
6.25		1	1	1	1	1
12.5		1	1	1	0.8	1
25		1	1	1	0.6	1
50		0.8	0.8	1	1	1
100		1	1	1	1	1

### Graphics



# CETIS Analytical Report

Report Date: 21 Nov-11 11:02 (p 1 of 4)  
 Test Code: 07-2221-2048/VCF1011049tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 06-1882-4976	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0
Analyzed: 21 Nov-11 11:02	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 07-2916-8738	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:00	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 18-5842-9485	Code: VCF1011049t	Client: VCWPD
Sample Date: 05 Oct-11 10:05	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 6h (8 °C)	Station: ME-VR2	

### Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

### Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1.56	0.85 - NL	Yes	Result Within Limits

### Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.749	2.908	0.0986	No Outliers Detected

### Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

### Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Calculated Variate						
			Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	1.56	1.204	2.004	0.05539	0.3034	19.45%	0.0%
6.25		5	1.723	1.612	1.884	0.0246	0.1347	7.82%	-10.46%
12.5		5	1.735	1.452	2.07	0.04425	0.2424	13.97%	-11.23%
25		5	1.587	0.998	1.902	0.06404	0.3508	22.1%	-1.74%
50		5	1.603	1.404	1.71	0.02295	0.1257	7.84%	-2.8%
100		5	1.661	1.498	1.882	0.02884	0.158	9.51%	-6.51%

### Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.204	1.416	2.004	1.482	1.692
6.25		1.884	1.854	1.614	1.65	1.612
12.5		1.628	1.884	2.07	1.452	1.64
25		1.902	1.768	1.7	0.998	1.566
50		1.664	1.404	1.556	1.71	1.682
100		1.642	1.498	1.75	1.534	1.882

# CETIS Analytical Report

Report Date: 21 Nov-11 11:02 (p 2 of 4)  
Test Code: 07-2221-2048/VCF1011049tops

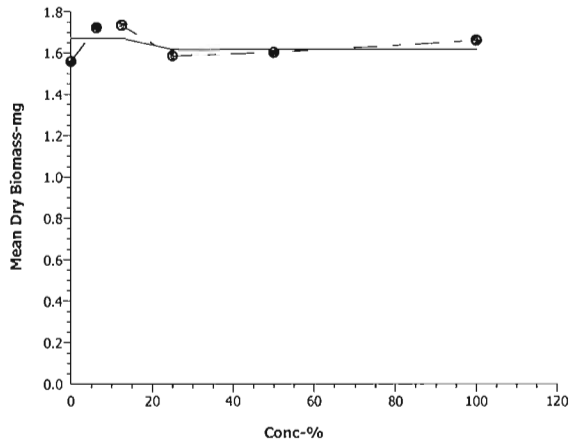
Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 06-1882-4976      Endpoint: Mean Dry Biomass-mg  
Analyzed: 21 Nov-11 11:02      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics





**CETIS Analytical Report**

Report Date: 21 Nov-11 11:02 (p 3 of 4)  
 Test Code: 07-2221-2048/VCF1011049tops

**Pacific Topsmelt 7-d Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 07-2747-2412	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 21 Nov-11 11:02	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 07-2916-8738	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:00	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 18-5842-9485	Code: VCF1011049t	Client: VCWPD
Sample Date: 05 Oct-11 10:05	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 6h (8 °C)	Station: ME-VR2	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.8 - NL	Yes	Result Within Limits

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

**7d Survival Rate Summary**

**Calculated Variate(A/B)**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	5	0.96	0.8	1	0.01633	0.08944	9.32%	0.0%	24	25
6.25		5	1	1	1	0	0	0.0%	-4.17%	25	25
12.5		5	0.96	0.8	1	0.01633	0.08944	9.32%	0.0%	24	25
25		5	0.92	0.6	1	0.03266	0.1789	19.44%	4.17%	23	25
50		5	0.92	0.8	1	0.02	0.1095	11.91%	4.17%	23	25
100		5	1	1	1	0	0	0.0%	-4.17%	25	25

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.8	1	1	1	1
6.25		1	1	1	1	1
12.5		1	1	1	0.8	1
25		1	1	1	0.6	1
50		0.8	0.8	1	1	1
100		1	1	1	1	1



# CETIS Analytical Report

Report Date: 21 Nov-11 11:02 (p 4 of 4)  
Test Code: 07-2221-2048/VCF1011049tops

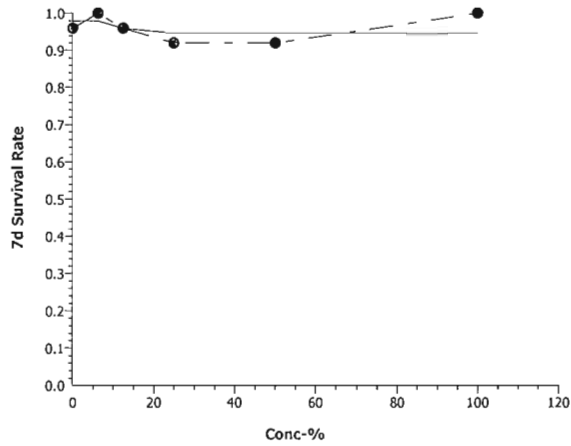
Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 07-2747-2412      Endpoint: 7d Survival Rate  
Analyzed: 21 Nov-11 11:02      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



# CETIS Measurement Report

Report Date: 21 Nov-11 11:02 (p 1 of 2)  
 Test Code: 07-2221-2048/VCF1011049tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 07-2916-8738	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:00	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 18-5842-9485	Code: VCF1011049t	Client: VCWPD
Sample Date: 05 Oct-11 10:05	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 6h (8 °C)	Station: ME-VR2	

### Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	6.438	6.273	6.602	5.8	7	0.08113	0.4868	7.56%	0
6.25		8	6.413	6.137	6.688	5.7	8.2	0.1355	0.8132	12.68%	0
12.5		8	6.263	6.106	6.419	5.7	7	0.07712	0.4627	7.39%	0
25		8	6.188	6.063	6.312	5.7	6.9	0.06136	0.3682	5.95%	0
50		8	6.225	6.095	6.355	5.7	6.9	0.06409	0.3845	6.18%	0
100		8	6.263	6.13	6.395	5.7	6.9	0.06543	0.3926	6.27%	0
Overall		48	6.298			5.7	8.2				0 (0%)

### Total Ammonia (N)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

### pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.8	7.782	7.818	7.7	7.9	0.00891	0.05346	0.69%	0
6.25		8	7.8	7.8	7.8	7.8	7.8	0	0	0.0%	0
12.5		8	7.8	7.8	7.8	7.8	7.8	0	0	0.0%	0
25		8	7.713	7.701	7.724	7.7	7.8	0.005893	0.03536	0.46%	0
50		8	7.8	7.8	7.8	7.8	7.8	0	0	0.0%	0
100		8	7.8	7.8	7.8	7.8	7.8	0	0	0.0%	0
Overall		48	7.785			7.7	7.9				0 (0%)

### Salinity-ppt

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	34	34	34	34	34	0	0	0.0%	0
6.25		8	34	34	34	34	34	0	0	0.0%	0
12.5		8	34	34	34	34	34	0	0	0.0%	0
25		8	34	34	34	34	34	0	0	0.0%	0
50		8	34	34	34	34	34	0	0	0.0%	0
100		8	34	34	34	34	34	0	0	0.0%	0
Overall		48	34			34	34				0 (0%)

### Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	21	21	21	21	21	0	0	0.0%	0
6.25		8	21	21	21	21	21	0	0	0.0%	0
12.5		8	21	21	21	21	21	0	0	0.0%	0
25		8	21	21	21	21	21	0	0	0.0%	0
50		8	21	21	21	21	21	0	0	0.0%	0
100		8	21	21	21	21	21	0	0	0.0%	0
Overall		48	21			21	21				0 (0%)

**CETIS Measurement Report**

Report Date: 21 Nov-11 11:02 (p 2 of 2)  
 Test Code: 07-2221-2048/VCF1011049tops

**Pacific Topsmelt 7-d Survival and Growth Test**

**Aquatic Bioassay & Consulting Labs, Inc.**

**Dissolved Oxygen-mg/L**

Conc.-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.8	6.7	6.9	6.4	5.8	5.8	7	6.1
6.25		6.1	6.2	6	8.2	5.7	7	6.1	6
12.5		6.3	5.9	6.9	6	6.1	5.7	7	6.2
25		6.4	6.2	6.2	6.1	5.7	6.9	6.2	5.8
50		6.4	6.2	6.5	6.1	5.7	6.9	6.2	5.8
100		6.5	6.3	6.5	6.1	5.7	6.9	6.3	5.8

**Total Ammonia (N)-mg/L**

Conc.-%	Control Type	1
0	Negative Contr	0
100		0

**pH-Units**

Conc.-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	7.7	7.8	7.9	7.8	7.8	7.8	7.8
6.25		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
12.5		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
25		7.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7
50		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
100		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8

**Salinity-ppt**

Conc.-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	34	34	34	34	34	34	34	34
6.25		34	34	34	34	34	34	34	34
12.5		34	34	34	34	34	34	34	34
25		34	34	34	34	34	34	34	34
50		34	34	34	34	34	34	34	34
100		34	34	34	34	34	34	34	34

**Temperature-°C**

Conc.-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	21	21	21	21	21	21	21	21
6.25		21	21	21	21	21	21	21	21
12.5		21	21	21	21	21	21	21	21
25		21	21	21	21	21	21	21	21
50		21	21	21	21	21	21	21	21
100		21	21	21	21	21	21	21	21



November 23<sup>rd</sup>, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

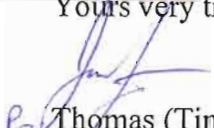
We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Estuarine Organisms, EPA/821/R-02-014*. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	ME-CC
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.060

#### CHRONIC TOPSMELT SURVIVAL AND GROWTH BIOASSAY

Survival	NOEC =	100.00
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
Biomass	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

  
P-1 Thomas (Tim) Mikel  
Laboratory Director

# CETIS Summary Report

Report Date: 21 Nov-11 11:28 (p 1 of 2)  
 Test Code: 03-2104-9631/VCF1011060tops

Pacific Topsmelt 7-d Survival and Growth Test Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 00-7164-7206	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:10	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable
Duration: 7d	Source: Aquatic Biosystems, CO	Age:
Sample ID: 18-3095-0896	Code: VCF1011060t	Client: VCWPD
Sample Date: 05 Oct-11 13:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report	
Sample Age: 3h (8 °C)	Station: ME-CC	

### Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
19-4552-0550	7d Survival Rate	100	>100	N/A	14.92%	1	Steel Many-One Rank Test
00-9082-9798	Mean Dry Biomass-mg	100	>100	N/A	40.79%	1	Dunnnett's Multiple Comparison Test

### Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
11-2303-2393	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
17-3103-0740	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	

### Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
11-2303-2393	7d Survival Rate	Control Resp	0.96	0.8 - NL	Yes	Result Within Limits
19-4552-0550	7d Survival Rate	Control Resp	0.96	0.8 - NL	Yes	Result Within Limits
00-9082-9798	Mean Dry Biomass-mg	Control Resp	1.792	0.85 - NL	Yes	Result Within Limits
17-3103-0740	Mean Dry Biomass-mg	Control Resp	1.792	0.85 - NL	Yes	Result Within Limits
19-4552-0550	7d Survival Rate	PMSD	0.1492	NL - 0.25	No	Result Within Limits
00-9082-9798	Mean Dry Biomass-mg	PMSD	0.4079	NL - 0.5	No	Result Within Limits

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	0.96	0.9266	0.9934	0.8	1	0.01633	0.08944	9.32%	0.0%
6.25		5	0.84	0.7775	0.9025	0.6	1	0.03055	0.1673	19.92%	12.5%
12.5		5	1	1	1	1	1	0	0	0.0%	-4.17%
25		5	1	1	1	1	1	0	0	0.0%	-4.17%
50		5	0.96	0.9266	0.9934	0.8	1	0.01633	0.08944	9.32%	0.0%
100		5	0.92	0.8791	0.9609	0.8	1	0.02	0.1095	11.91%	4.17%

### Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	1.792	1.709	1.875	1.43	1.974	0.04064	0.2226	12.42%	0.0%
6.25		5	1.496	1.372	1.619	1	1.798	0.06026	0.33	22.07%	16.54%
12.5		5	1.928	1.801	2.056	1.564	2.482	0.06215	0.3404	17.65%	-7.61%
25		5	1.692	1.494	1.889	0.776	2.092	0.09672	0.5298	31.32%	5.6%
50		5	2.084	1.864	2.304	1.316	2.712	0.1076	0.5894	28.28%	-16.29%
100		5	1.908	1.635	2.181	1.1	2.952	0.1335	0.7311	38.31%	-6.5%

# CETIS Summary Report

Report Date: 21 Nov-11 11:28 (p 2 of 2)  
Test Code: 03-2104-9631/VCF1011060tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.8	1	1	1	1
6.25		0.6	0.8	0.8	1	1
12.5		1	1	1	1	1
25		1	1	1	1	1
50		1	1	0.8	1	1
100		1	1	1	0.8	0.8

### Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.43	1.966	1.838	1.974	1.752
6.25		1	1.336	1.746	1.798	1.598
12.5		1.956	1.564	1.824	1.816	2.482
25		1.83	2.092	2.01	0.776	1.75
50		1.77	1.316	2.63	1.992	2.712
100		1.55	2.952	1.1	2.33	1.61

**CETIS Analytical Report**

Report Date: 21 Nov-11 11:28 (p 1 of 4)  
 Test Code: 03-2104-9631/VCF1011060tops

**Pacific Topsmelt 7-d Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 00-9082-9798	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0
Analyzed: 21 Nov-11 11:27	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 00-7164-7206	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:10	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable
Duration: 7d	Source: Aquatic Biosystems, CO	Age:
Sample ID: 18-3095-0896	Code: VCF1011060t	Client: VCWPD
Sample Date: 05 Oct-11 13:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report	
Sample Age: 3h (8 °C)	Station: ME-CC	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	40.79%

**Dunnett's Multiple Comparison Test**

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	0.9577	2.362	0.731	0.4389	Non-Significant Effect
		12.5	-0.4407	2.362	0.731	0.9314	Non-Significant Effect
		25	0.3244	2.362	0.731	0.7203	Non-Significant Effect
		50	-0.9435	2.362	0.731	0.9805	Non-Significant Effect
		100	-0.3761	2.362	0.731	0.9208	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1.792	0.85 - NL	Yes	Result Within Limits
PMSD	0.4079	NL - 0.5	No	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.344	2.908	0.4283	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	1.058502	0.2117004	5	0.884	0.5069	Non-Significant Effect
Error	5.747261	0.2394692	24			
Total	6.805762	0.4511696	29			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	6.401	15.09	0.2692	Equal Variances
Variances	Mod Levene Equality of Variance	1.172	4.248	0.3608	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9861		0.9544	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.07319	0.1853	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.1359	2.576	0.8919	Normal Distribution
Distribution	D'Agostino Kurtosis	0.4017	2.576	0.6879	Normal Distribution
Distribution	D'Agostino Omnibus	0.1798	9.21	0.9140	Normal Distribution

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	1.792	1.707	1.877	1.43	1.974	0.04133	0.2226	12.42%	0.0%
6.25		5	1.496	1.37	1.621	1	1.798	0.06129	0.33	22.07%	16.54%
12.5		5	1.928	1.799	2.058	1.564	2.482	0.06322	0.3404	17.65%	-7.61%
25		5	1.692	1.49	1.893	0.776	2.092	0.09837	0.5298	31.32%	5.6%
50		5	2.084	1.86	2.308	1.316	2.712	0.1094	0.5894	28.28%	-16.29%
100		5	1.908	1.63	2.186	1.1	2.952	0.1358	0.7311	38.31%	-6.5%

Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

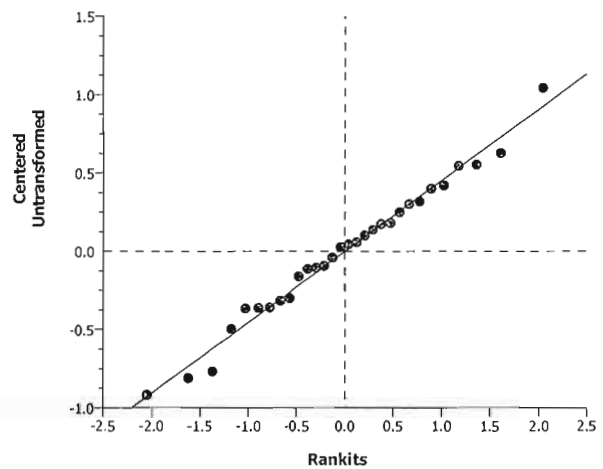
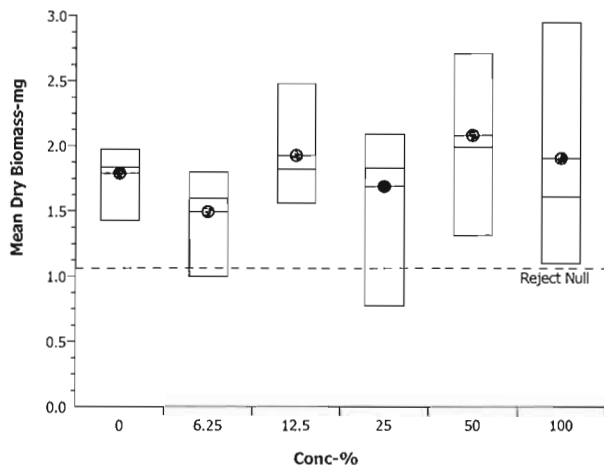
Analysis ID: 00-9082-9798      Endpoint: Mean Dry Biomass-mg  
 Analyzed: 21 Nov-11 11:27      Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.43	1.966	1.838	1.974	1.752
6.25		1	1.336	1.746	1.798	1.598
12.5		1.956	1.564	1.824	1.816	2.482
25		1.83	2.092	2.01	0.776	1.75
50		1.77	1.316	2.63	1.992	2.712
100		1.55	2.952	1.1	2.33	1.61

Graphics





**CETIS Analytical Report**

Report Date: 21 Nov-11 11:28 (p 3 of 4)  
 Test Code: 03-2104-9631/VCF1011060tops

**Pacific Topsmelt 7-d Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 19-4552-0550	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 21 Nov-11 11:26	Analysis: Nonparametric-Control vs Treatments	Official Results: Yes
Batch ID: 00-7164-7206	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:10	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable
Duration: 7d	Source: Aquatic Biosystems, CO	Age:
Sample ID: 18-3095-0896	Code: VCF1011060t	Client: VCWPD
Sample Date: 05 Oct-11 13:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report	
Sample Age: 3h (8 °C)	Station: ME-CC	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	14.92%

**Steel Many-One Rank Test**

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	22	16	2	0.3476	Non-Significant Effect
		12.5	30	16	1	0.9446	Non-Significant Effect
		25	30	16	1	0.9446	Non-Significant Effect
		50	27.5	16	2	0.8333	Non-Significant Effect
		100	25	16	2	0.6353	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.8 - NL	Yes	Result Within Limits
PMSD	0.1492	NL - 0.25	No	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.64	2.908	0.1511	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.1242524	0.02485047	5	1.936	0.1254	Non-Significant Effect
Error	0.3080455	0.01283523	24			
Total	0.4322978	0.0376857	29			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	1.839	4.248	0.1559	Equal Variances
Distribution	Shapiro-Wilk Normality	0.8976		0.0074	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.2667	0.1853	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	1.848	2.576	0.0646	Normal Distribution
Distribution	D'Agostino Kurtosis	1.297	2.576	0.1946	Normal Distribution
Distribution	D'Agostino Omnibus	5.098	9.21	0.0781	Normal Distribution

# CETIS Analytical Report

Report Date: 21 Nov-11 11:28 (p 4 of 4)  
 Test Code: 03-2104-9631/VCF1011060tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 19-4552-0550      Endpoint: 7d Survival Rate  
 Analyzed: 21 Nov-11 11:26      Analysis: Nonparametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	0.96	0.926	0.994	0.8	1	0.01661	0.08944	9.32%	0.0%
6.25		5	0.84	0.7764	0.9036	0.6	1	0.03107	0.1673	19.92%	12.5%
12.5		5	1	1	1	1	1	0	0	0.0%	-4.17%
25		5	1	1	1	1	1	0	0	0.0%	-4.17%
50		5	0.96	0.926	0.994	0.8	1	0.01661	0.08944	9.32%	0.0%
100		5	0.92	0.8783	0.9617	0.8	1	0.02034	0.1095	11.91%	4.17%

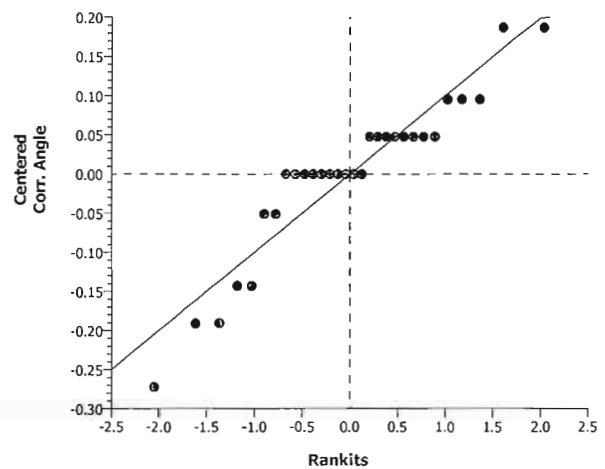
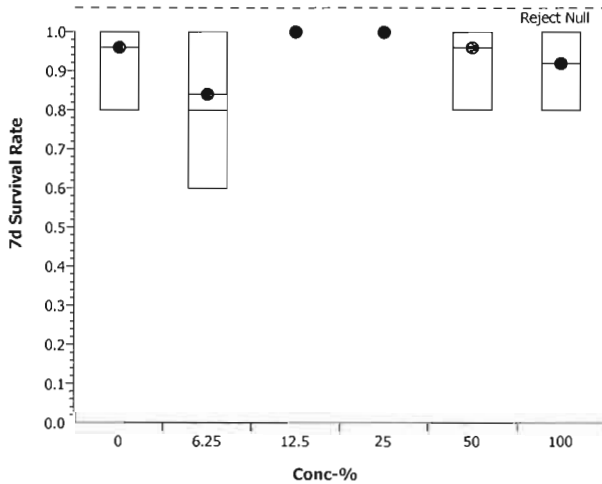
### Angular (Corrected) Transformed Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	5	1.298	1.257	1.338	1.107	1.345	0.01978	0.1065	8.21%	0.0%
6.25		5	1.158	1.085	1.232	0.8861	1.345	0.03587	0.1932	16.68%	10.75%
12.5		5	1.345	1.345	1.345	1.345	1.345	0	0	0.0%	-3.67%
25		5	1.345	1.345	1.345	1.345	1.345	0	0	0.0%	-3.67%
50		5	1.298	1.257	1.338	1.107	1.345	0.01978	0.1065	8.21%	0.0%
100		5	1.25	1.2	1.3	1.107	1.345	0.02422	0.1304	10.43%	3.67%

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.8	1	1	1	1
6.25		0.6	0.8	0.8	1	1
12.5		1	1	1	1	1
25		1	1	1	1	1
50		1	1	0.8	1	1
100		1	1	1	0.8	0.8

### Graphics



**CETIS Analytical Report**

Report Date: 21 Nov-11 11:28 (p 1 of 4)  
 Test Code: 03-2104-9631/VCF1011060tops

<b>Pacific Topsmelt 7-d Survival and Growth Test</b>			<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>		
Analysis ID: 17-3103-0740	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0			
Analyzed: 21 Nov-11 11:28	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes			
Batch ID: 00-7164-7206	Test Type: Growth-Survival (7d)	Analyst:			
Start Date: 05 Oct-11 16:10	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater			
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable			
Duration: 7d	Source: Aquatic Biosystems, CO	Age:			
Sample ID: 18-3095-0896	Code: VCF1011060t	Client: VCWPD			
Sample Date: 05 Oct-11 13:00	Material: Sample Water	Project: 2010/11-1 (Wet)			
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report				
Sample Age: 3h (8 °C)	Station: ME-CC				

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1.792	0.85 - NL	Yes	Result Within Limits

**Residual Analysis**

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.344	2.908	0.4283	No Outliers Detected

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Calculated Variate						
			Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	1.792	1.43	1.974	0.04064	0.2226	12.42%	0.0%
6.25		5	1.496	1	1.798	0.06026	0.33	22.07%	16.54%
12.5		5	1.928	1.564	2.482	0.06215	0.3404	17.65%	-7.61%
25		5	1.692	0.776	2.092	0.09672	0.5298	31.32%	5.6%
50		5	2.084	1.316	2.712	0.1076	0.5894	28.28%	-16.29%
100		5	1.908	1.1	2.952	0.1335	0.7311	38.31%	-6.5%

**Mean Dry Biomass-mg Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.43	1.966	1.838	1.974	1.752
6.25		1	1.336	1.746	1.798	1.598
12.5		1.956	1.564	1.824	1.816	2.482
25		1.83	2.092	2.01	0.776	1.75
50		1.77	1.316	2.63	1.992	2.712
100		1.55	2.952	1.1	2.33	1.61

# CETIS Analytical Report

Report Date: 21 Nov-11 11:28 (p 2 of 4)  
Test Code: 03-2104-9631/VCF1011060tops

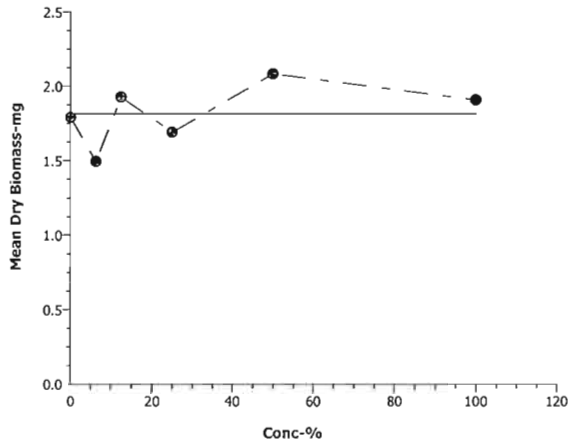
Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 17-3103-0740      Endpoint: Mean Dry Biomass-mg  
Analyzed: 21 Nov-11 11:28      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



# CETIS Analytical Report

Report Date: 21 Nov-11 11:28 (p 3 of 4)  
 Test Code: 03-2104-9631/VCF1011060tops

Pacific Topsmelt 7-d Survival and Growth Test			Aquatic Bioassay & Consulting Labs, Inc.		
Analysis ID:	11-2303-2393	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	21 Nov-11 11:26	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	00-7164-7206	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	05 Oct-11 16:10	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	12 Oct-11 16:00	Species:	Atherinops affinis	Brine:	Not Applicable
Duration:	7d	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	18-3095-0896	Code:	VCF1011060t	Client:	VCWPD
Sample Date:	05 Oct-11 13:00	Material:	Sample Water	Project:	2010/11-1 (Wet)
Receive Date:	05 Oct-11 14:29	Source:	Bioassay Report		
Sample Age:	3h (8 °C)	Station:	ME-CC		

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.8 - NL	Yes	Result Within Limits

Residual Analysis					
Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.64	2.908	0.1511	No Outliers Detected

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary			Calculated Variate(A/B)									
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B	
0	Negative Control	5	0.96	0.8	1	0.01633	0.08944	9.32%	0.0%	24	25	
6.25		5	0.84	0.6	1	0.03055	0.1673	19.92%	12.5%	21	25	
12.5		5	1	1	1	0	0	0.0%	-4.17%	25	25	
25		5	1	1	1	0	0	0.0%	-4.17%	25	25	
50		5	0.96	0.8	1	0.01633	0.08944	9.32%	0.0%	24	25	
100		5	0.92	0.8	1	0.02	0.1095	11.91%	4.17%	23	25	

7d Survival Rate Detail						
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.8	1	1	1	1
6.25		0.6	0.8	0.8	1	1
12.5		1	1	1	1	1
25		1	1	1	1	1
50		1	1	0.8	1	1
100		1	1	1	0.8	0.8

# CETIS Analytical Report

Report Date: 21 Nov-11 11:28 (p 4 of 4)  
Test Code: 03-2104-9631/VCF1011060tops

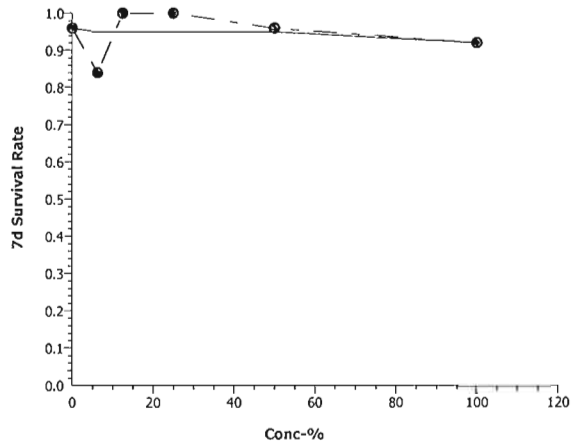
Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 11-2303-2393      Endpoint: 7d Survival Rate  
Analyzed: 21 Nov-11 11:26      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



# CETIS Measurement Report

Report Date: 21 Nov-11 11:28 (p 1 of 2)  
 Test Code: 03-2104-9631/VCF1011060tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 00-7164-7206	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:10	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable
Duration: 7d	Source: Aquatic Biosystems, CO	Age:
Sample ID: 18-3095-0896	Code: VCF1011060t	Client: VCWPD
Sample Date: 05 Oct-11 13:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report	
Sample Age: 3h (8 °C)	Station: ME-CC	

### Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	6.438	6.273	6.602	5.8	7	0.08113	0.4868	7.56%	0
6.25		8	6.363	6.221	6.504	5.8	7	0.06954	0.4173	6.56%	0
12.5		8	6.263	6.106	6.419	5.7	7	0.07712	0.4627	7.39%	0
25		8	6.188	6.063	6.312	5.7	6.9	0.06136	0.3682	5.95%	0
50		8	6.225	6.095	6.355	5.7	6.9	0.06409	0.3845	6.18%	0
100		8	6.263	6.13	6.395	5.7	6.9	0.06543	0.3926	6.27%	0
Overall		48	6.29			5.7	7				0 (0%)

### Total Ammonia (N)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

### pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.8	7.782	7.818	7.7	7.9	0.00891	0.05346	0.69%	0
6.25		8	7.7	7.604	7.796	7	7.8	0.04714	0.2828	3.67%	0
12.5		8	7.8	7.8	7.8	7.8	7.8	0	0	0.0%	0
25		8	7.713	7.701	7.724	7.7	7.8	0.005893	0.03536	0.46%	0
50		8	7.8	7.8	7.8	7.8	7.8	0	0	0.0%	0
100		8	7.8	7.8	7.8	7.8	7.8	0	0	0.0%	0
Overall		48	7.769			7	7.9				0 (0%)

### Salinity-ppt

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	34	34	34	34	34	0	0	0.0%	0
6.25		8	34	34	34	34	34	0	0	0.0%	0
12.5		8	34	34	34	34	34	0	0	0.0%	0
25		8	34	34	34	34	34	0	0	0.0%	0
50		8	34	34	34	34	34	0	0	0.0%	0
100		8	34	34	34	34	34	0	0	0.0%	0
Overall		48	34			34	34				0 (0%)

### Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	21	21	21	21	21	0	0	0.0%	0
6.25		8	21	21	21	21	21	0	0	0.0%	0
12.5		8	21	21	21	21	21	0	0	0.0%	0
25		8	21	21	21	21	21	0	0	0.0%	0
50		8	21	21	21	21	21	0	0	0.0%	0
100		8	21	21	21	21	21	0	0	0.0%	0
Overall		48	21			21	21				0 (0%)

**CETIS Measurement Report**

Report Date: 21 Nov-11 11:28 (p 2 of 2)  
 Test Code: 03-2104-9631/VCF1011060tops

**Pacific Topsmelt 7-d Survival and Growth Test**

**Aquatic Bioassay & Consulting Labs, Inc.**

**Dissolved Oxygen-mg/L**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	6.8	6.7	6.9	6.4	5.8	5.8	7	6.1
6.25		6.2	6.3	6.5	6.2	5.8	7	6.9	6
12.5		6.3	5.9	6.9	6	6.1	5.7	7	6.2
25		6.4	6.2	6.2	6.1	5.7	6.9	6.2	5.8
50		6.4	6.2	6.5	6.1	5.7	6.9	6.2	5.8
100		6.5	6.3	6.5	6.1	5.7	6.9	6.3	5.8

**Total Ammonia (N)-mg/L**

Conc-%	Control Type	1
0	Negative Contr	0
100		0

**pH-Units**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.8	7.7	7.8	7.9	7.8	7.8	7.8	7.8
6.25		7	7.8	7.8	7.8	7.8	7.8	7.8	7.8
12.5		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
25		7.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7
50		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
100		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8

**Salinity-ppt**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	34	34	34	34	34	34	34	34
6.25		34	34	34	34	34	34	34	34
12.5		34	34	34	34	34	34	34	34
25		34	34	34	34	34	34	34	34
50		34	34	34	34	34	34	34	34
100		34	34	34	34	34	34	34	34

**Temperature-°C**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	21	21	21	21	21	21	21	21
6.25		21	21	21	21	21	21	21	21
12.5		21	21	21	21	21	21	21	21
25		21	21	21	21	21	21	21	21
50		21	21	21	21	21	21	21	21
100		21	21	21	21	21	21	21	21





November 23<sup>rd</sup>, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Estuarine Organisms, EPA/821/R-02-014*. Results were as follows:

CLIENT: Ventura County Flood Control  
SAMPLE I.D.: ME-VR2  
DATE RECEIVED: 10/5/2011  
ABC LAB. NO.: VCF1011.049

Note: Incorrect cover sheet:  
Should say MO-OJA and  
Fathead Minnow.

### CHRONIC TOPSMELT SURVIVAL AND GROWTH BIOASSAY

Survival	NOEC =	100.00
	TU <sub>c</sub> =	1.00
	IC <sub>25</sub> =	>100.00 %
	IC <sub>50</sub> =	>100.00 %
Biomass	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC <sub>25</sub> =	>100.00 %
	IC <sub>50</sub> =	>100.00 %

Yours very truly,

Thomas (Tim) Mikel  
Laboratory Director

# CETIS Summary Report

Report Date: 22 Nov-11 09:53 (p 1 of 2)  
 Test Code: 09-3061-8889/VCF1011050cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 09-3137-4001	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 14:38	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 12:45	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 02-7510-5993	Code: VCF1011050cf	Client: VCWPD
Sample Date: 05 Oct-11 09:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 30h (8 °C)	Station: MO-OJA	

### Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
05-7145-1821	7d Survival Rate	100	>100	N/A	10.01%	1	Dunnnett's Multiple Comparison Test
19-1674-2329	Mean Dry Biomass-mg	100	>100	N/A	10.74%	1	Dunnnett's Multiple Comparison Test

### Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
03-4691-1290	7d Survival Rate	EC5	24.08	13.55	N/A	4.153	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
16-2698-4869	Mean Dry Biomass-mg	IC5	14.2	6.771	33.61	7.044	Linear Interpolation (ICPIN)
		IC10	56.87	N/A	N/A	1.758	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	

### Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
03-4691-1290	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
05-7145-1821	7d Survival Rate	Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits
16-2698-4869	Mean Dry Biomass-mg	Control Resp	0.4077	0.25 - NL	Yes	Result Within Limits
19-1674-2329	Mean Dry Biomass-mg	Control Resp	0.4077	0.25 - NL	Yes	Result Within Limits
19-1674-2329	Mean Dry Biomass-mg	PMSD	0.1074	0.12 - 0.3	Yes	Result Below Limit

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	0.0%
6.25		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-1.72%
12.5		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	-1.72%
25		4	0.9167	0.8853	0.948	0.8	1	0.01532	0.08389	9.15%	5.17%
50		4	0.9333	0.913	0.9537	0.8667	1	0.009938	0.05443	5.83%	3.45%
100		4	0.9167	0.8853	0.948	0.8	1	0.01532	0.08389	9.15%	5.17%

### Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.4077	0.4023	0.413	0.3893	0.4193	0.002608	0.01428	3.5%	0.0%
6.25		4	0.4645	0.4552	0.4738	0.446	0.5013	0.004555	0.02495	5.37%	-13.94%
12.5		4	0.4173	0.4028	0.4319	0.376	0.4587	0.007125	0.03903	9.35%	-2.37%
25		4	0.3943	0.3861	0.4026	0.372	0.4207	0.004045	0.02215	5.62%	3.27%
50		4	0.3953	0.3886	0.402	0.3767	0.4113	0.003272	0.01792	4.53%	3.03%
100		4	0.3777	0.367	0.3883	0.3407	0.41	0.005192	0.02844	7.53%	7.36%

# CETIS Summary Report

Report Date: 22 Nov-11 09:53 (p 2 of 2)  
Test Code: 09-3061-8889/VCF1011050cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9333	1	0.9333	1
6.25		1	1	1	0.9333
12.5		1	1	0.9333	1
25		0.9333	0.8	1	0.9333
50		1	0.8667	0.9333	0.9333
100		0.8	0.9333	1	0.9333

### Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4187	0.4193	0.3893	0.4033
6.25		0.4553	0.4553	0.5013	0.446
12.5		0.4413	0.4587	0.3933	0.376
25		0.404	0.3807	0.4207	0.372
50		0.3767	0.3833	0.41	0.4113
100		0.3407	0.3793	0.41	0.3807

**CETIS Analytical Report**

Report Date: 22 Nov-11 09:53 (p 1 of 4)  
 Test Code: 09-3061-8889/VCF1011050cfml

<b>Fathead Minnow 7-d Larval Survival and Growth Test</b>			<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>		
Analysis ID: 19-1674-2329	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0			
Analyzed: 22 Nov-11 9:51	Analysis: Parametric-Control vs Treatments	Official Results: Yes			
Batch ID: 09-3137-4001	Test Type: Growth-Survival (7d)	Analyst:			
Start Date: 06 Oct-11 14:38	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water			
Ending Date: 13 Oct-11 12:45	Species: Pimephales promelas	Brine: Not Applicable			
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:			
Sample ID: 02-7510-5993	Code: VCF1011050cf	Client: VCWPD			
Sample Date: 05 Oct-11 09:00	Material: Sample Water	Project: 2010/11-1 (Wet)			
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report				
Sample Age: 30h (8 °C)	Station: MO-OJA				

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	10.74%

**Dunnett's Multiple Comparison Test**

Control	vs Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control	6.25	-3.125	2.407	0.04378	1.0000	Non-Significant Effect
	12.5	-0.5315	2.407	0.04378	0.9438	Non-Significant Effect
	25	0.733	2.407	0.04378	0.5429	Non-Significant Effect
	50	0.6781	2.407	0.04378	0.5680	Non-Significant Effect
	100	1.649	2.407	0.04378	0.1834	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.4077	0.25 - NL	Yes	Result Within Limits
PMSD	0.1074	0.12 - 0.3	Yes	Result Below Limit

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	1.816	2.802	1.0000	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.0181352	0.00362704	5	5.482	0.0031	Significant Effect
Error	0.01191011	0.000661673	18			
Total	0.03004532	0.004288713	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.253	15.09	0.6610	Equal Variances
Variances	Mod Levene Equality of Variance	1.238	4.248	0.3323	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9736		0.7553	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1148	0.2056	0.5780	Normal Distribution
Distribution	D'Agostino Skewness	0.2394	2.576	0.8108	Normal Distribution
Distribution	D'Agostino Kurtosis	0.9532	2.576	0.3405	Normal Distribution
Distribution	D'Agostino Omnibus	0.9659	9.21	0.6169	Normal Distribution

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.4077	0.4022	0.4131	0.3893	0.4193	0.002652	0.01428	3.5%	0.0%
6.25		4	0.4645	0.455	0.474	0.446	0.5013	0.004632	0.02495	5.37%	-13.94%
12.5		4	0.4173	0.4025	0.4322	0.376	0.4587	0.007247	0.03903	9.35%	-2.37%
25		4	0.3943	0.3859	0.4028	0.372	0.4207	0.004114	0.02215	5.62%	3.27%
50		4	0.3953	0.3885	0.4022	0.3767	0.4113	0.003328	0.01792	4.53%	3.03%
100		4	0.3777	0.3668	0.3885	0.3407	0.41	0.005281	0.02844	7.53%	7.36%

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

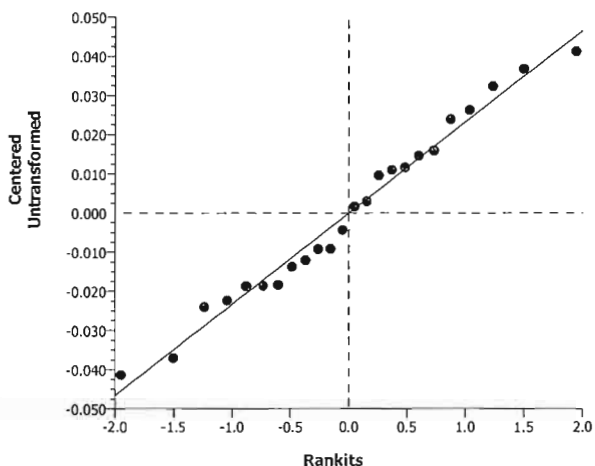
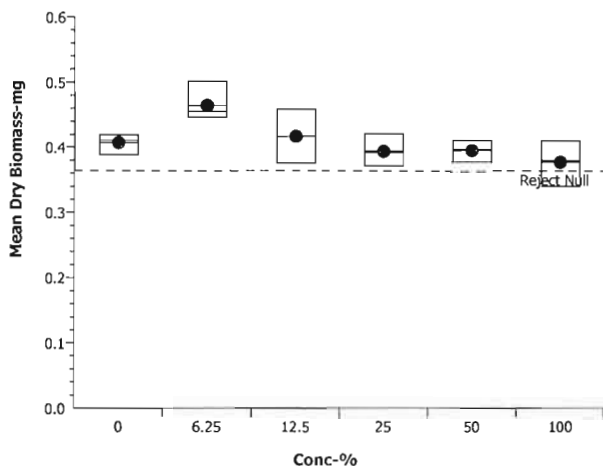
Analysis ID: 19-1674-2329 Endpoint: Mean Dry Biomass-mg  
 Analyzed: 22 Nov-11 9:51 Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4187	0.4193	0.3893	0.4033
6.25		0.4553	0.4553	0.5013	0.446
12.5		0.4413	0.4587	0.3933	0.376
25		0.404	0.3807	0.4207	0.372
50		0.3767	0.3833	0.41	0.4113
100		0.3407	0.3793	0.41	0.3807

Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 09:53 (p 3 of 4)  
 Test Code: 09-3061-8889/VCF1011050cfml

**Fathead Minnow 7-d Larval Survival and Growth Test** Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 05-7145-1821	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 9:51	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 09-3137-4001	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 14:38	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 12:45	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 02-7510-5993	Code: VCF1011050cf	Client: VCWPD
Sample Date: 05 Oct-11 09:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 30h (8 °C)	Station: MO-OJA	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	10.01%

**Dunnett's Multiple Comparison Test**

Control	vs Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control	6.25	-0.4562	2.407	0.1737	0.9333	Non-Significant Effect
	12.5	-0.4562	2.407	0.1737	0.9333	Non-Significant Effect
	25	1.158	2.407	0.1737	0.3544	Non-Significant Effect
	50	0.8464	2.407	0.1737	0.4910	Non-Significant Effect
	100	1.158	2.407	0.1737	0.3544	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.047	2.802	0.7970	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.06186998	0.012374	5	1.188	0.3538	Non-Significant Effect
Error	0.1874865	0.01041592	18			
Total	0.2493564	0.02278991	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.13	15.09	0.6799	Equal Variances
Variances	Mod Levene Equality of Variance	0.3686	4.248	0.8634	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9259		0.0791	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.2027	0.2056	0.0120	Normal Distribution
Distribution	D'Agostino Skewness	1.025	2.576	0.3052	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2427	2.576	0.8082	Normal Distribution
Distribution	D'Agostino Omnibus	1.11	9.21	0.5741	Normal Distribution



Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 05-7145-1821 Endpoint: 7d Survival Rate  
 Analyzed: 22 Nov-11 9:51 Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	0.0%
6.25		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-1.72%
12.5		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	-1.72%
25		4	0.9167	0.8848	0.9486	0.8	1	0.01558	0.08389	9.15%	5.17%
50		4	0.9333	0.9126	0.954	0.8667	1	0.01011	0.05443	5.83%	3.45%
100		4	0.9167	0.8848	0.9486	0.8	1	0.01558	0.08389	9.15%	5.17%

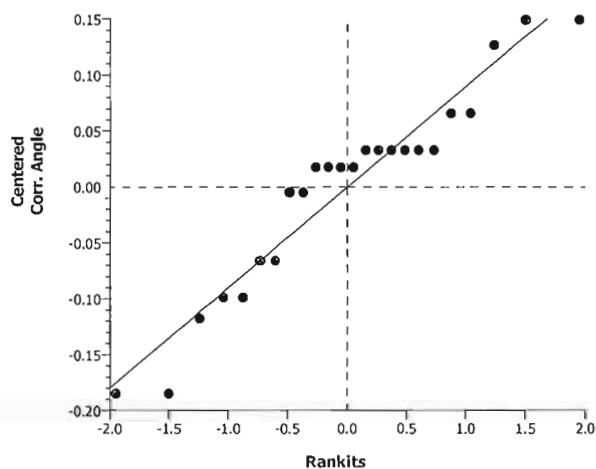
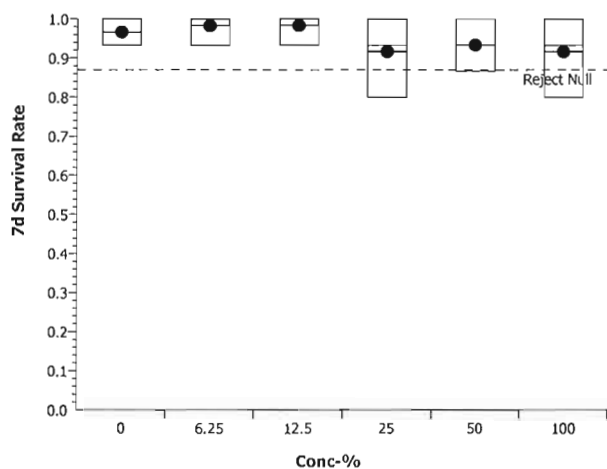
Angular (Corrected) Transformed Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	0.0%
6.25		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-2.39%
12.5		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	-2.39%
25		4	1.292	1.239	1.344	1.107	1.441	0.02562	0.138	10.68%	6.07%
50		4	1.314	1.276	1.352	1.197	1.441	0.01855	0.0999	7.6%	4.44%
100		4	1.292	1.239	1.344	1.107	1.441	0.02562	0.138	10.68%	6.07%

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9333	1	0.9333	1
6.25		1	1	1	0.9333
12.5		1	1	0.9333	1
25		0.9333	0.8	1	0.9333
50		1	0.8667	0.9333	0.9333
100		0.8	0.9333	1	0.9333

Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 09:53 (p 1 of 4)  
 Test Code: 09-3061-8889/VCF1011050cfml

<b>Fathead Minnow 7-d Larval Survival and Growth Test</b>		<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>	
Analysis ID: 16-2698-4869	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0	
Analyzed: 22 Nov-11 9:51	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes	
Batch ID: 09-3137-4001	Test Type: Growth-Survival (7d)	Analyst:	
Start Date: 06 Oct-11 14:38	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water	
Ending Date: 13 Oct-11 12:45	Species: Pimephales promelas	Brine: Not Applicable	
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:	
Sample ID: 02-7510-5993	Code: VCF1011050cf	Client: VCWPD	
Sample Date: 05 Oct-11 09:00	Material: Sample Water	Project: 2010/11-1 (Wet)	
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report		
Sample Age: 30h (8 °C)	Station: MO-OJA		

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3019480	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.4077	0.25 - NL	Yes	Result Within Limits

**Residual Analysis**

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.816	2.802	1.0000	No Outliers Detected

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	14.2	6.771	33.61	7.044	2.975	14.77
IC10	56.87	N/A	N/A	1.758	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Calculated Variate						
			Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.4077	0.3893	0.4193	0.002608	0.01428	3.5%	0.0%
6.25		4	0.4645	0.446	0.5013	0.004555	0.02495	5.37%	-13.94%
12.5		4	0.4173	0.376	0.4587	0.007125	0.03903	9.35%	-2.37%
25		4	0.3943	0.372	0.4207	0.004045	0.02215	5.62%	3.27%
50		4	0.3953	0.3767	0.4113	0.003272	0.01792	4.53%	3.03%
100		4	0.3777	0.3407	0.41	0.005192	0.02844	7.53%	7.36%

**Mean Dry Biomass-mg Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4187	0.4193	0.3893	0.4033
6.25		0.4553	0.4553	0.5013	0.446
12.5		0.4413	0.4587	0.3933	0.376
25		0.404	0.3807	0.4207	0.372
50		0.3767	0.3833	0.41	0.4113
100		0.3407	0.3793	0.41	0.3807



# CETIS Analytical Report

Report Date: 22 Nov-11 09:53 (p 2 of 4)  
Test Code: 09-3061-8889/VCF1011050cfml

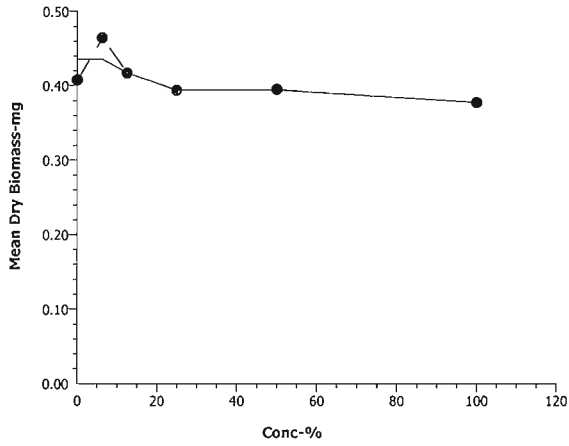
## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 16-2698-4869      Endpoint: Mean Dry Biomass-mg  
Analyzed: 22 Nov-11 9:51      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

### Graphics



# CETIS Analytical Report

Report Date: 22 Nov-11 09:53 (p 3 of 4)  
 Test Code: 09-3061-8889/VCF1011050cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 03-4691-1290	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 9:51	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 09-3137-4001	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 14:38	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 12:45	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 02-7510-5993	Code: VCF1011050cf	Client: VCWPD
Sample Date: 05 Oct-11 09:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 30h (8 °C)	Station: MO-OJA	

### Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3019480	280	Yes	Two-Point Interpolation

### Test Acceptability

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9667	0.8 - NL	Yes	Result Within Limits

### Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.047	2.802	0.7970	No Outliers Detected

### Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	24.08	13.55	N/A	4.153	N/A	7.379
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Calculated Variate(A/B)								
			Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9667	0.9333	1	0.007027	0.03849	3.98%	0.0%	58	60
6.25		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-1.72%	59	60
12.5		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	-1.72%	59	60
25		4	0.9167	0.8	1	0.01532	0.08389	9.15%	5.17%	55	60
50		4	0.9333	0.8667	1	0.009938	0.05443	5.83%	3.45%	56	60
100		4	0.9167	0.8	1	0.01532	0.08389	9.15%	5.17%	55	60

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9333	1	0.9333	1
6.25		1	1	1	0.9333
12.5		1	1	0.9333	1
25		0.9333	0.8	1	0.9333
50		1	0.8667	0.9333	0.9333
100		0.8	0.9333	1	0.9333

# CETIS Analytical Report

Report Date: 22 Nov-11 09:53 (p 4 of 4)  
Test Code: 09-3061-8889/VCF1011050cfml

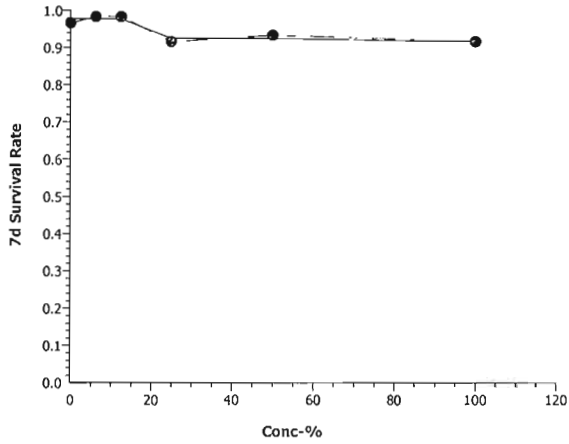
Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 03-4691-1290      Endpoint: 7d Survival Rate  
Analyzed: 22 Nov-11 9:51      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



**CETIS Measurement Report**

Report Date: 22 Nov-11 09:53 (p 1 of 2)  
 Test Code: 09-3061-8889/VCF1011050cfml

Fathead Minnow 7-d Larval Survival and Growth Test Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 09-3137-4001	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 14:38	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 12:45	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 02-7510-5993	Code: VCF1011050cf	Client: VCWPD
Sample Date: 05 Oct-11 09:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 30h (8 °C)	Station: MO-OJA	

**Alkalinity (CaCO3)-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62	62	62	62	62	0	0	0.0%	0
100		8	37	37	37	37	37	0	0	0.0%	0
Overall		16	49.5			37	62				0 (0%)

**Conductivity-µmhos**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	329.4	325	333.8	311	349	2.162	12.97	3.94%	0
6.25		8	282.8	248.1	317.4	30	332	17.07	102.4	36.22%	0
12.5		8	298.5	296.6	300.4	289	306	0.9258	5.555	1.86%	0
25		8	273.4	270.4	276.3	265	289	1.453	8.717	3.19%	0
50		8	202.5	194.8	210.2	190	258	3.773	22.64	11.18%	0
100		8	107.4	97.69	117.1	94	178	4.771	28.63	26.66%	0
Overall		48	249			30	349				0 (0%)

**Dissolved Oxygen-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.875	7.691	8.059	6.8	8.6	0.09074	0.5445	6.91%	0
6.25		8	7.588	7.304	7.871	5.6	8.2	0.1396	0.8374	11.04%	0
12.5		8	7.575	7.309	7.841	5.7	8.1	0.1309	0.7851	10.36%	0
25		8	7.575	7.319	7.831	5.8	8.3	0.1262	0.7573	10.0%	0
50		8	7.55	7.315	7.785	5.9	8.1	0.1158	0.6949	9.2%	0
100		8	7.55	7.25	7.85	5.5	8.3	0.1477	0.8864	11.74%	0
Overall		48	7.619			5.5	8.6				0 (0%)

**Hardness (CaCO3)-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	88.5	88.19	88.81	88	90	0.1543	0.9258	1.05%	0
100		8	70	70	70	70	70	0	0	0.0%	0
Overall		16	79.25			70	90				0 (0%)

**pH-Units**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.963	7.937	7.988	7.8	8	0.0124	0.0744	0.93%	0
6.25		8	7.8	7.717	7.883	7.2	7.9	0.04082	0.2449	3.14%	0
12.5		8	7.738	7.663	7.812	7.2	7.9	0.03666	0.22	2.84%	0
25		8	16.19	8.01	24.36	7.3	76	4.028	24.17	149.3%	0
50		8	7.588	7.542	7.633	7.4	7.8	0.0226	0.1356	1.79%	0
100		8	7.363	7.27	7.455	6.9	7.7	0.04537	0.2722	3.7%	0
Overall		48	9.106			6.9	76				0 (0%)

# CETIS Measurement Report

Report Date: 22 Nov-11 09:53 (p 2 of 2)  
 Test Code: 09-3061-8889/VCF1011050cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.05	24.02	24.08	24	24.2	0.01542	0.09255	0.38%	0
6.25		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
12.5		8	24.09	24.04	24.13	24	24.4	0.0226	0.1356	0.56%	0
25		8	24.04	24.02	24.05	24	24.1	0.008611	0.05167	0.22%	0
50		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
100		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
Overall		48	24.04			24	24.4				0 (0%)

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	62	62	62	62	62	62	62	62
100		37	37	37	37	37	37	37	37

### Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	311	349	324	325	325	323	330	348
6.25		304	317	318	319	319	30	323	332
12.5		289	292	298	300	300	300	303	306
25		268	265	268	270	270	272	285	289
50		190	196	195	198	195	198	190	258
100		95	96	98	99	94	98	101	178

### Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.2	8.6	8	8.1	8.1	7.7	7.5	6.8
6.25		7.9	8.2	7.9	8	8	7.7	7.4	5.6
12.5		8	8.1	7.8	7.9	7.9	7.8	7.4	5.7
25		7.8	8.3	7.8	7.9	7.8	7.8	7.4	5.8
50		7.7	8.1	7.8	7.9	7.8	7.8	7.4	5.9
100		8.3	8.1	7.8	7.9	7.8	7.8	7.2	5.5

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	88	88	88	88	88	88
100		70	70	70	70	70	70	70	70

### pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	8	8	8	8	8	7.9	7.8
6.25		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.2
12.5		7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.2
25		7.6	7.7	7.6	7.8	7.6	7.7	7.8	7.3
50		7.4	7.5	7.5	7.7	7.7	7.5	7.6	7.8
100		6.9	7.1	7.4	7.6	7.5	7.5	7.7	7.2

### Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24	24	24	24.2	24	24	24.2
6.25		24	24	24	24.1	24.1	24	24	24
12.5		24	24	24	24.1	24	24.1	24.4	24.1
25		24	24.1	24	24	24	24	24.1	24.1
50		24	24.1	24	24	24	24.1	24	24
100		24	24.2	24	24	24	24	24	24.1



November 23<sup>rd</sup>, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*" EPA-821-R-02-013. Results were as follows:

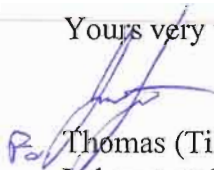
CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MEI
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.051

#### CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

REPRODUCTION	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,



Thomas (Tim) Mikel  
Laboratory Director

**CETIS Summary Report**

Report Date: 22 Nov-11 10:22 (p 1 of 2)  
 Test Code: 02-5096-8333/VCF1011051cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

<b>Batch ID:</b> 02-9692-8480	<b>Test Type:</b> Growth-Survival (7d)	<b>Analyst:</b>
<b>Start Date:</b> 06 Oct-11 15:48	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> Laboratory Water
<b>Ending Date:</b> 13 Oct-11 13:58	<b>Species:</b> Pimephales promelas	<b>Brine:</b> Not Applicable
<b>Duration:</b> 6d 22h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b>
<b>Sample ID:</b> 17-3744-9910	<b>Code:</b> VCF1011051cf	<b>Client:</b> VCWPD
<b>Sample Date:</b> 05 Oct-11 08:00	<b>Material:</b> Sample Water	<b>Project:</b> 2010/11-1 (Wet)
<b>Receive Date:</b> 05 Oct-11 11:25	<b>Source:</b> Bioassay Report	
<b>Sample Age:</b> 32h (8 °C)	<b>Station:</b> MO-MEI	

**Comparison Summary**

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
06-7166-3867	7d Survival Rate	100	>100	N/A	7.1%	1	Dunnett's Multiple Comparison Test
12-7733-6438	Mean Dry Biomass-mg	100	>100	N/A	18.74%	1	Dunnett's Multiple Comparison Test

**Point Estimate Summary**

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
12-3812-5649	7d Survival Rate	EC5	98.75	19.89	N/A	1.013	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
16-6017-8074	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	

**Test Acceptability**

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
06-7166-3867	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
12-3812-5649	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
12-7733-6438	Mean Dry Biomass-mg	Control Resp	0.3182	0.25 - NL	Yes	Result Within Limits
16-6017-8074	Mean Dry Biomass-mg	Control Resp	0.3182	0.25 - NL	Yes	Result Within Limits
12-7733-6438	Mean Dry Biomass-mg	PMSD	0.1874	0.12 - 0.3	Yes	Result Within Limits

**7d Survival Rate Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	0.0%
6.25		4	0.95	0.9262	0.9738	0.8667	1	0.01165	0.06383	6.72%	3.39%
12.5		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	0.0%
25		4	1	1	1	1	1	0	0	0.0%	-1.7%
50		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	1.7%
100		4	0.9333	0.913	0.9537	0.8667	1	0.009938	0.05443	5.83%	5.09%

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3182	0.3001	0.3363	0.2913	0.3907	0.008851	0.04848	15.24%	0.0%
6.25		4	0.3897	0.3754	0.4039	0.338	0.4267	0.006983	0.03824	9.82%	-22.47%
12.5		4	0.4363	0.4239	0.4487	0.4053	0.4767	0.006059	0.03318	7.61%	-37.14%
25		4	0.3925	0.3832	0.4018	0.37	0.4147	0.004536	0.02485	6.33%	-23.36%
50		4	0.3663	0.3577	0.375	0.3473	0.3987	0.004233	0.02319	6.33%	-15.14%
100		4	0.3672	0.3537	0.3806	0.3147	0.396	0.006571	0.03599	9.8%	-15.4%



# CETIS Summary Report

Report Date: 22 Nov-11 10:22 (p 2 of 2)  
Test Code: 02-5096-8333/VCF1011051cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9333	1	1	1
6.25		0.8667	1	0.9333	1
12.5		1	0.9333	1	1
25		1	1	1	1
50		0.9333	1	1	0.9333
100		0.8667	0.9333	0.9333	1

### Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2993	0.2913	0.2913	0.3907
6.25		0.338	0.408	0.386	0.4267
12.5		0.4053	0.45	0.4767	0.4133
25		0.37	0.4147	0.4133	0.372
50		0.352	0.3673	0.3473	0.3987
100		0.3147	0.382	0.396	0.376



**CETIS Analytical Report**

Report Date: 22 Nov-11 10:22 (p 1 of 4)  
 Test Code: 02-5096-8333/VCF1011051cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 12-7733-6438	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 10:22	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 02-9692-8480	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 15:48	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 13:58	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 17-3744-9910	Code: VCF1011051cf	Client: VCWPD
Sample Date: 05 Oct-11 08:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 32h (8 °C)	Station: MO-MEI	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	18.74%

**Dunnett's Multiple Comparison Test**

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-2.886	2.407	0.05963	0.9999	Non-Significant Effect
		12.5	-4.77	2.407	0.05963	1.0000	Non-Significant Effect
		25	-3.001	2.407	0.05963	1.0000	Non-Significant Effect
		50	-1.944	2.407	0.05963	0.9989	Non-Significant Effect
		100	-1.978	2.407	0.05963	0.9990	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3182	0.25 - NL	Yes	Result Within Limits
PMSD	0.1874	0.12 - 0.3	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.339	2.802	0.3171	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.03032743	0.006065486	5	4.942	0.0051	Significant Effect
Error	0.022093	0.001227389	18			
Total	0.05242043	0.007292875	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.972	15.09	0.8530	Equal Variances
Variances	Mod Levene Equality of Variance	0.118	4.248	0.9867	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9653		0.5536	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.145	0.2056	0.2118	Normal Distribution
Distribution	D'Agostino Skewness	0.6682	2.576	0.5040	Normal Distribution
Distribution	D'Agostino Kurtosis	0.06681	2.576	0.9467	Normal Distribution
Distribution	D'Agostino Omnibus	0.4509	9.21	0.7981	Normal Distribution

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3182	0.2997	0.3366	0.2913	0.3907	0.009003	0.04848	15.24%	0.0%
6.25		4	0.3897	0.3751	0.4042	0.338	0.4267	0.007102	0.03824	9.82%	-22.47%
12.5		4	0.4363	0.4237	0.449	0.4053	0.4767	0.006162	0.03318	7.61%	-37.14%
25		4	0.3925	0.383	0.402	0.37	0.4147	0.004614	0.02485	6.33%	-23.36%
50		4	0.3663	0.3575	0.3752	0.3473	0.3987	0.004306	0.02319	6.33%	-15.14%
100		4	0.3672	0.3535	0.3809	0.3147	0.396	0.006683	0.03599	9.8%	-15.4%

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

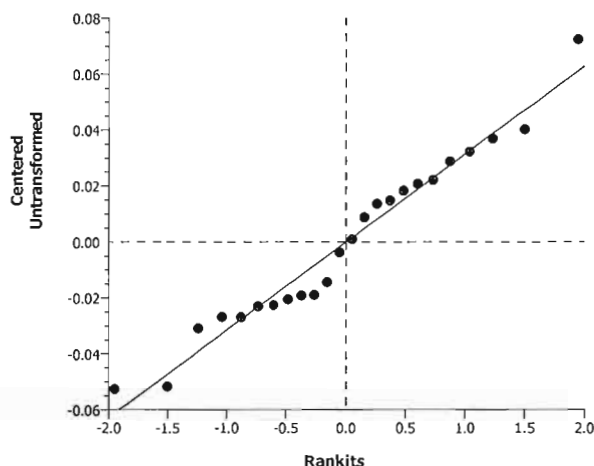
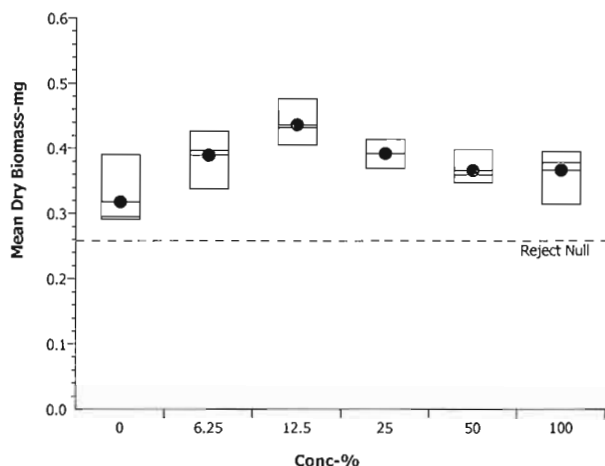
Analysis ID: 12-7733-6438      Endpoint: Mean Dry Biomass-mg  
 Analyzed: 22 Nov-11 10:22      Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

Mean Dry Biomass-mg Detail

Conc.-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2993	0.2913	0.2913	0.3907
6.25		0.338	0.408	0.386	0.4267
12.5		0.4053	0.45	0.4767	0.4133
25		0.37	0.4147	0.4133	0.372
50		0.352	0.3673	0.3473	0.3987
100		0.3147	0.382	0.396	0.376

Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 10:22 (p 3 of 4)  
 Test Code: 02-5096-8333/VCF1011051cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 06-7166-3867	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 10:21	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 02-9692-8480	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 15:48	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 13:58	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 17-3744-9910	Code: VCF1011051cf	Client: VCWPD
Sample Date: 05 Oct-11 08:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 32h (8 °C)	Station: MO-MEI	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	7.1%

**Dunnett's Multiple Comparison Test**

Control	vs Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control	6.25	1.081	2.407	0.136	0.3867	Non-Significant Effect
	12.5	0	2.407	0.136	0.8333	Non-Significant Effect
	25	-0.5825	2.407	0.136	0.9501	Non-Significant Effect
	50	0.5825	2.407	0.136	0.6111	Non-Significant Effect
	100	1.663	2.407	0.136	0.1795	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.126	2.802	0.6307	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.04291049	0.008582098	5	1.343	0.2912	Non-Significant Effect
Error	0.1149923	0.006388463	18			
Total	0.1579028	0.01497056	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	1.526	4.248	0.2314	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9566		0.3741	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1815	0.2056	0.0398	Normal Distribution
Distribution	D'Agostino Skewness	0.9136	2.576	0.3609	Normal Distribution
Distribution	D'Agostino Kurtosis	0.1441	2.576	0.8854	Normal Distribution
Distribution	D'Agostino Omnibus	0.8554	9.21	0.6520	Normal Distribution

# CETIS Analytical Report

Report Date: 22 Nov-11 10:22 (p 4 of 4)  
 Test Code: 02-5096-8333/CF1011051cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 06-7166-3867      Endpoint: 7d Survival Rate  
 Analyzed: 22 Nov-11 10:21      Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	0.0%
6.25		4	0.95	0.9257	0.9743	0.8667	1	0.01185	0.06383	6.72%	3.39%
12.5		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	0.0%
25		4	1	1	1	1	1	0	0	0.0%	-1.7%
50		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	1.7%
100		4	0.9333	0.9126	0.954	0.8667	1	0.01011	0.05443	5.83%	5.09%

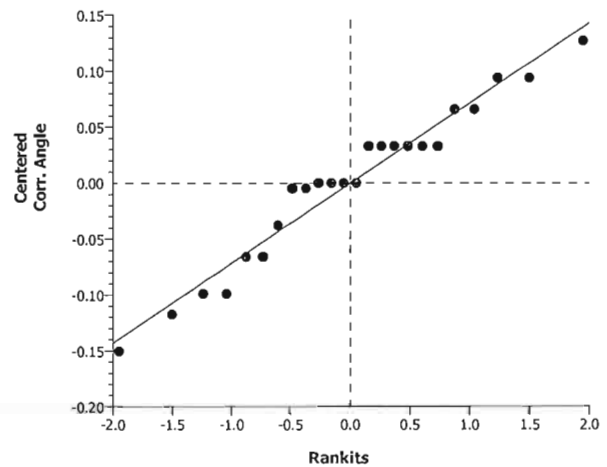
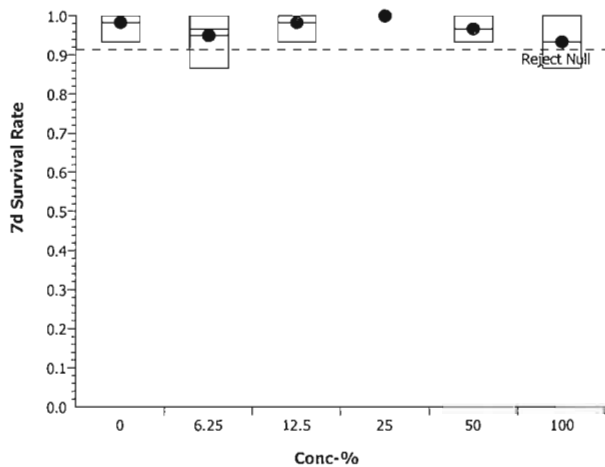
### Angular (Corrected) Transformed Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	0.0%
6.25		4	1.347	1.302	1.392	1.197	1.441	0.02189	0.1179	8.75%	4.34%
12.5		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	0.0%
25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	-2.34%
50		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	2.34%
100		4	1.314	1.276	1.352	1.197	1.441	0.01855	0.0999	7.6%	6.68%

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9333	1	1	1
6.25		0.8667	1	0.9333	1
12.5		1	0.9333	1	1
25		1	1	1	1
50		0.9333	1	1	0.9333
100		0.8667	0.9333	0.9333	1

### Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 10:22 (p 1 of 4)  
 Test Code: 02-5096-8333/VCF1011051cfml

Fathead Minnow 7-d Larval Survival and Growth Test			Aquatic Bioassay & Consulting Labs, Inc.		
Analysis ID: 16-6017-8074	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0			
Analyzed: 22 Nov-11 10:22	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes			
Batch ID: 02-9692-8480	Test Type: Growth-Survival (7d)	Analyst:			
Start Date: 06 Oct-11 15:48	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water			
Ending Date: 13 Oct-11 13:58	Species: Pimephales promelas	Brine: Not Applicable			
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:			
Sample ID: 17-3744-9910	Code: VCF1011051cf	Client: VCWPD			
Sample Date: 05 Oct-11 08:00	Material: Sample Water	Project: 2010/11-1 (Wet)			
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report				
Sample Age: 32h (8 °C)	Station: MO-MEI				

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7747401	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3182	0.25 - NL	Yes	Result Within Limits

Residual Analysis					
Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.339	2.802	0.3171	No Outliers Detected

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3182	0.2913	0.3907	0.008851	0.04848	15.24%	0.0%
6.25		4	0.3897	0.338	0.4267	0.006983	0.03824	9.82%	-22.47%
12.5		4	0.4363	0.4053	0.4767	0.006059	0.03318	7.61%	-37.14%
25		4	0.3925	0.37	0.4147	0.004536	0.02485	6.33%	-23.36%
50		4	0.3663	0.3473	0.3987	0.004233	0.02319	6.33%	-15.14%
100		4	0.3672	0.3147	0.396	0.006571	0.03599	9.8%	-15.4%

Mean Dry Biomass-mg Detail					
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2993	0.2913	0.2913	0.3907
6.25		0.338	0.408	0.386	0.4267
12.5		0.4053	0.45	0.4767	0.4133
25		0.37	0.4147	0.4133	0.372
50		0.352	0.3673	0.3473	0.3987
100		0.3147	0.382	0.396	0.376

# CETIS Analytical Report

Report Date: 22 Nov-11 10:22 (p 2 of 4)  
Test Code: 02-5096-8333/VCF1011051cfml

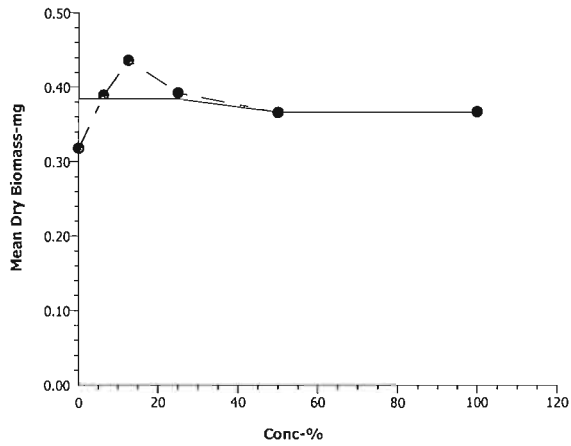
Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 16-6017-8074      Endpoint: Mean Dry Biomass-mg  
Analyzed: 22 Nov-11 10:22      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics





**CETIS Analytical Report**

Report Date: 22 Nov-11 10:22 (p 3 of 4)  
 Test Code: 02-5096-8333/VCF1011051cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 12-3812-5649	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 10:22	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 02-9692-8480	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 15:48	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 13:58	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 17-3744-9910	Code: VCF1011051cf	Client: VCWPD
Sample Date: 05 Oct-11 08:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 32h (8 °C)	Station: MO-MEI	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7747401	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

**Residual Analysis**

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.126	2.802	0.6307	No Outliers Detected

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	98.75	19.89	N/A	1.013	N/A	5.027
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

**7d Survival Rate Summary**

**Calculated Variate(A/B)**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9833	0.9333	1	0.006086	0.03333	3.39%	0.0%	59	60
6.25		4	0.95	0.8667	1	0.01165	0.06383	6.72%	3.39%	57	60
12.5		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	0.0%	59	60
25		4	1	1	1	0	0	0.0%	-1.7%	60	60
50		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	1.7%	58	60
100		4	0.9333	0.8667	1	0.009938	0.05443	5.83%	5.09%	56	60

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9333	1	1	1
6.25		0.8667	1	0.9333	1
12.5		1	0.9333	1	1
25		1	1	1	1
50		0.9333	1	1	0.9333
100		0.8667	0.9333	0.9333	1

# CETIS Analytical Report

Report Date: 22 Nov-11 10:22 (p 4 of 4)

Test Code: 02-5096-8333/VCF1011051cfml

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 12-3812-5649

Endpoint: 7d Survival Rate

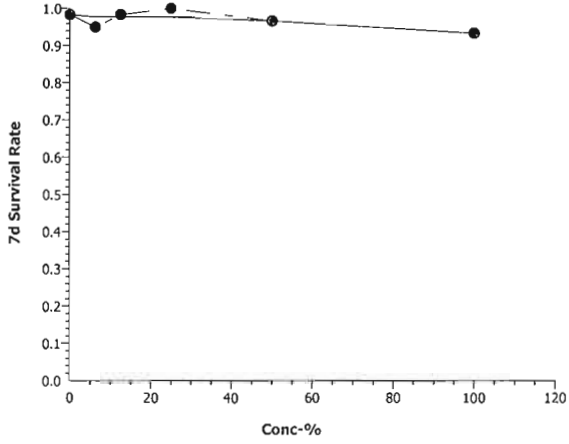
CETIS Version: CETISv1.7.0

Analyzed: 22 Nov-11 10:22

Analysis: Linear Interpolation (ICPIN)

Official Results: Yes

## Graphics





# CETIS Measurement Report

Report Date: 22 Nov-11 10:22 (p 1 of 2)  
 Test Code: 02-5096-8333/VCF1011051cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 02-9692-8480	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 15:48	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 13:58	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 17-3744-9910	Code: VCF1011051cf	Client: VCWPD
Sample Date: 05 Oct-11 08:00	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 32h (8 °C)	Station: MO-MEI	

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62	62	62	62	62	0	0	0.0%	0
100		8	37	37	37	37	37	0	0	0.0%	0
Overall		16	49.5			37	62				0 (0%)

### Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	329.4	325	333.8	311	349	2.162	12.97	3.94%	0
6.25		8	314.1	312.6	315.6	308	319	0.737	4.422	1.41%	0
12.5		8	298.5	296.6	300.4	289	306	0.9258	5.555	1.86%	0
25		8	273.4	270.4	276.3	265	289	1.453	8.717	3.19%	0
50		8	202.5	194.8	210.2	190	258	3.773	22.64	11.18%	0
100		8	238.9	225.9	251.8	220	333	6.377	38.26	16.02%	0
Overall		48	276.1			190	349				0 (0%)

### Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.875	7.691	8.059	6.8	8.6	0.09074	0.5445	6.91%	0
6.25		8	7.588	7.304	7.871	5.6	8.2	0.1396	0.8374	11.04%	0
12.5		8	7.575	7.309	7.841	5.7	8.1	0.1309	0.7851	10.36%	0
25		8	7.563	7.337	7.788	6.1	8.2	0.1112	0.6675	8.83%	0
50		8	7.55	7.315	7.785	5.9	8.1	0.1158	0.6949	9.2%	0
100		8	7.55	7.25	7.85	5.5	8.3	0.1477	0.8864	11.74%	0
Overall		48	7.617			5.5	8.6				0 (0%)

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	88.5	88.19	88.81	88	90	0.1543	0.9258	1.05%	0
100		8	70	70	70	70	70	0	0	0.0%	0
Overall		16	79.25			70	90				0 (0%)

### pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.963	7.937	7.988	7.8	8	0.0124	0.0744	0.93%	0
6.25		8	7.8	7.717	7.883	7.2	7.9	0.04082	0.2449	3.14%	0
12.5		8	7.738	7.663	7.812	7.2	7.9	0.03666	0.22	2.84%	0
25		8	16.19	8.01	24.36	7.3	76	4.028	24.17	149.3%	0
50		8	7.588	7.542	7.633	7.4	7.8	0.0226	0.1356	1.79%	0
100		8	7.363	7.27	7.455	6.9	7.7	0.04537	0.2722	3.7%	0
Overall		48	9.106			6.9	76				0 (0%)

**CETIS Measurement Report**

Report Date: 22 Nov-11 10:22 (p 2 of 2)  
 Test Code: 02-5096-8333/VCF1011051cfml

Fathead Minnow 7-d Larval Survival and Growth Test Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.05	24.02	24.08	24	24.2	0.01542	0.09255	0.38%	0
6.25		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
12.5		8	24.09	24.04	24.13	24	24.4	0.0226	0.1356	0.56%	0
25		8	24.04	24.02	24.05	24	24.1	0.008611	0.05167	0.22%	0
50		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
100		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
Overall		48	24.04			24	24.4				0 (0%)

Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	62	62	62	62	62	62	62	62
100		37	37	37	37	37	37	37	37

Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	311	349	324	325	325	323	330	348
6.25		308	309	310	315	317	317	319	318
12.5		289	292	298	300	300	300	303	306
25		268	265	268	270	270	272	285	289
50		190	196	195	198	195	198	190	258
100		234	225	220	225	222	224	228	333

Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.2	8.6	8	8.1	8.1	7.7	7.5	6.8
6.25		7.9	8.2	7.9	8	8	7.7	7.4	5.6
12.5		8	8.1	7.8	7.9	7.9	7.8	7.4	5.7
25		7.4	8.2	8.1	7.9	7.8	7.7	7.3	6.1
50		7.7	8.1	7.8	7.9	7.8	7.8	7.4	5.9
100		8.3	8.1	7.8	7.9	7.8	7.8	7.2	5.5

Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	88	88	88	88	88	88
100		70	70	70	70	70	70	70	70

pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	8	8	8	8	8	7.9	7.8
6.25		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.2
12.5		7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.2
25		7.6	7.7	7.6	7.8	7.6	7.7	7.8	7.3
50		7.4	7.5	7.5	7.7	7.7	7.5	7.6	7.8
100		6.9	7.1	7.4	7.6	7.5	7.5	7.7	7.2

Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24	24	24	24.2	24	24	24.2
6.25		24	24	24	24.1	24.1	24	24	24
12.5		24	24	24	24.1	24	24.1	24.4	24.1
25		24	24.1	24	24	24	24	24.1	24.1
50		24	24.1	24	24	24	24.1	24	24
100		24	24.2	24	24	24	24	24	24.1



November 23<sup>rd</sup>, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

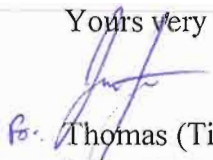
We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*" EPA-821-R-02-013. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SPA
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.059

#### CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	50.00 %
	TU <sub>c</sub> =	2.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	94.20%
	IC50 =	>100.00 %

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

# CETIS Summary Report

Report Date: 22 Nov-11 10:57 (p 1 of 2)

Test Code: 03-7849-3989/VCF1011059cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 06-5452-4258	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 16:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 14:00	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 12-8132-7937	Code: VCF1011059cf	Client: VCWPD
Sample Date: 05 Oct-11 06:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 34h (6.5 °C)	Station: MO-SPA	

### Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
09-1480-0793	7d Survival Rate	50	100	70.71	7.46%	2	Steel Many-One Rank Test
01-7385-5700	Mean Dry Biomass-mg	100	>100	N/A	21.66%	1	Dunnett's Multiple Comparison Test

### Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
18-6025-9530	7d Survival Rate	EC5	58	45.2	79.49	1.724	Linear Interpolation (ICPIN)
		EC10	76	57.93	N/A	1.316	
		EC15	94	66.27	N/A	1.064	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
04-5605-3497	Mean Dry Biomass-mg	IC5	44.17	21.19	74.5	2.264	Linear Interpolation (ICPIN)
		IC10	58.32	21.8	89.1	1.715	
		IC15	70.28	23.62	N/A	1.423	
		IC20	82.24	26.79	N/A	1.216	
		IC25	94.2	45.9	N/A	1.062	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

### Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
09-1480-0793	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
18-6025-9530	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
01-7385-5700	Mean Dry Biomass-mg	Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits
04-5605-3497	Mean Dry Biomass-mg	Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits
01-7385-5700	Mean Dry Biomass-mg	PMSD	0.2166	0.12 - 0.3	Yes	Result Within Limits

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	0.0%
12.5		4	0.95	0.9262	0.9738	0.8667	1	0.01165	0.06383	6.72%	5.0%
25		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	1.67%
50		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	1.67%
100		4	0.8333	0.7902	0.8765	0.6667	0.9333	0.02108	0.1155	13.86%	16.67%

### Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3292	0.3118	0.3465	0.278	0.3853	0.008487	0.04648	14.12%	0.0%
6.25		4	0.3995	0.3922	0.4068	0.38	0.4253	0.003571	0.01956	4.9%	-21.37%
12.5		4	0.3658	0.3493	0.3824	0.3073	0.4087	0.008106	0.0444	12.14%	-11.14%
25		4	0.3982	0.3918	0.4045	0.374	0.412	0.003113	0.01705	4.28%	-20.96%
50		4	0.3488	0.3267	0.3709	0.2667	0.4	0.01081	0.05922	16.98%	-5.98%
100		4	0.2708	0.2533	0.2884	0.23	0.3387	0.008586	0.04703	17.36%	17.72%

# CETIS Summary Report

Report Date: 22 Nov-11 10:57 (p 2 of 2)  
Test Code: 03-7849-3989/VCF1011059cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		0.8667	0.9333	1	1
25		0.9333	1	1	1
50		1	1	0.9333	1
100		0.8667	0.9333	0.6667	0.8667

### Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3853	0.278	0.308	0.3453
6.25		0.4027	0.4253	0.39	0.38
12.5		0.3073	0.39	0.4087	0.3573
25		0.408	0.3987	0.412	0.374
50		0.2667	0.4	0.346	0.3827
100		0.2567	0.3387	0.23	0.258

**CETIS Analytical Report**

Report Date: 22 Nov-11 10:57 (p 1 of 4)  
 Test Code: 03-7849-3989/VCF1011059cfml

Fathead Minnow 7-d Larval Survival and Growth Test Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 01-7385-5700	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 10:56	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 06-5452-4258	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 16:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 14:00	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 12-8132-7937	Code: VCF1011059cf	Client: VCWPD
Sample Date: 05 Oct-11 06:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 34h (6.5 °C)	Station: MO-SPA	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	21.66%

**Dunnett's Multiple Comparison Test**

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-2.375	2.407	0.07128	0.9997	Non-Significant Effect
		12.5	-1.238	2.407	0.07128	0.9911	Non-Significant Effect
		25	-2.33	2.407	0.07128	0.9997	Non-Significant Effect
		50	-0.6641	2.407	0.07128	0.9590	Non-Significant Effect
		100	1.97	2.407	0.07128	0.1097	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits
PMSD	0.2166	0.12 - 0.3	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.218	2.802	0.4743	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.04679349	0.009358698	5	5.336	0.0035	Significant Effect
Error	0.03157177	0.001753987	18			
Total	0.07836526	0.01111269	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.497	15.09	0.3583	Equal Variances
Variances	Mod Levene Equality of Variance	0.878	4.248	0.5154	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9876		0.9870	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.09045	0.2056	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.4489	2.576	0.6535	Normal Distribution
Distribution	D'Agostino Kurtosis	0.1104	2.576	0.9121	Normal Distribution
Distribution	D'Agostino Omnibus	0.2137	9.21	0.8987	Normal Distribution

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3292	0.3115	0.3468	0.278	0.3853	0.008632	0.04648	14.12%	0.0%
6.25		4	0.3995	0.3921	0.4069	0.38	0.4253	0.003632	0.01956	4.9%	-21.37%
12.5		4	0.3658	0.3489	0.3827	0.3073	0.4087	0.008244	0.0444	12.14%	-11.14%
25		4	0.3982	0.3917	0.4047	0.374	0.412	0.003167	0.01705	4.28%	-20.96%
50		4	0.3488	0.3263	0.3714	0.2667	0.4	0.011	0.05922	16.98%	-5.98%
100		4	0.2708	0.2529	0.2887	0.23	0.3387	0.008732	0.04703	17.36%	17.72%



Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

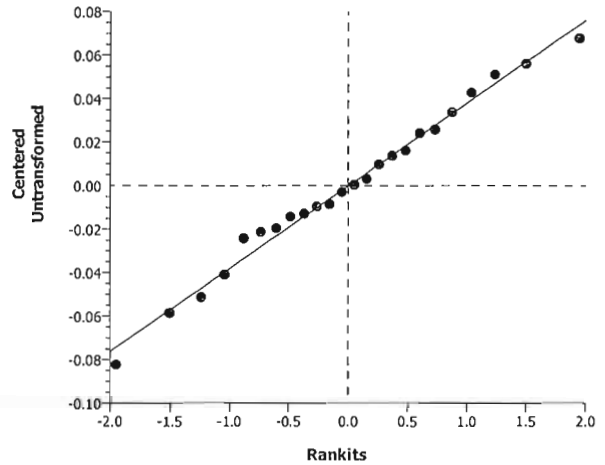
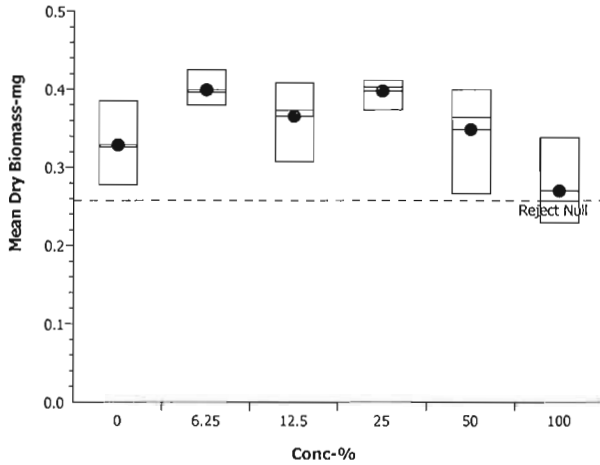
Analysis ID: 01-7385-5700 Endpoint: Mean Dry Biomass-mg  
 Analyzed: 22 Nov-11 10:56 Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3853	0.278	0.308	0.3453
6.25		0.4027	0.4253	0.39	0.38
12.5		0.3073	0.39	0.4087	0.3573
25		0.408	0.3987	0.412	0.374
50		0.2667	0.4	0.346	0.3827
100		0.2567	0.3387	0.23	0.258

Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 10:57 (p 3 of 4)  
 Test Code: 03-7849-3989/VCF1011059cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 09-1480-0793	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 10:56	Analysis: Nonparametric-Control vs Treatments	Official Results: Yes
Batch ID: 06-5452-4258	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 16:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 14:00	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 12-8132-7937	Code: VCF1011059cf	Client: VCWPD
Sample Date: 05 Oct-11 06:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 34h (6.5 °C)	Station: MO-SPA	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	50	100	70.71	2	7.46%

**Steel Many-One Rank Test**

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	18	10	1	0.8333	Non-Significant Effect
		12.5	14	10	1	0.3451	Non-Significant Effect
		25	16	10	1	0.6105	Non-Significant Effect
		50	16	10	1	0.6105	Non-Significant Effect
		100*	10	10	0	0.0417	Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.737	2.802	0.0670	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.2230472	0.04460944	5	5.964	0.0020	Significant Effect
Error	0.1346444	0.007480243	18			
Total	0.3576916	0.05208968	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	1.639	4.248	0.2005	Equal Variances
Distribution	Shapiro-Wilk Normality	0.8729		0.0060	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.2917	0.2056	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	2.094	2.576	0.0362	Normal Distribution
Distribution	D'Agostino Kurtosis	1.747	2.576	0.0806	Normal Distribution
Distribution	D'Agostino Omnibus	7.44	9.21	0.0242	Normal Distribution



# CETIS Analytical Report

Report Date: 22 Nov-11 10:57 (p 4 of 4)  
 Test Code: 03-7849-3989/CF1011059cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 09-1480-0793      Endpoint: 7d Survival Rate  
 Analyzed: 22 Nov-11 10:56      Analysis: Nonparametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	0.0%
12.5		4	0.95	0.9257	0.9743	0.8667	1	0.01185	0.06383	6.72%	5.0%
25		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	1.67%
50		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	1.67%
100		4	0.8333	0.7894	0.8773	0.6667	0.9333	0.02144	0.1155	13.86%	16.67%

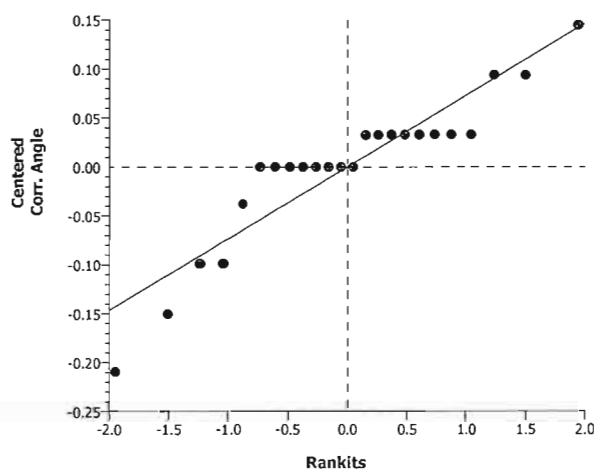
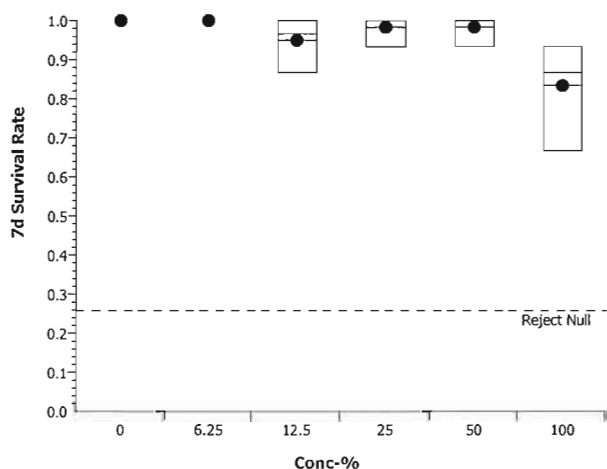
### Angular (Corrected) Transformed Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	0.0%
6.25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	0.0%
12.5		4	1.347	1.302	1.392	1.197	1.441	0.02189	0.1179	8.75%	6.52%
25		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	2.28%
50		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	2.28%
100		4	1.165	1.108	1.222	0.9553	1.31	0.02774	0.1494	12.82%	19.19%

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		0.8667	0.9333	1	1
25		0.9333	1	1	1
50		1	1	0.9333	1
100		0.8667	0.9333	0.6667	0.8667

### Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 10:57 (p 1 of 4)  
 Test Code: 03-7849-3989/VCF1011059cfml

Fathead Minnow 7-d Larval Survival and Growth Test			Aquatic Bioassay & Consulting Labs, Inc.		
Analysis ID: 04-5605-3497	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0	Analized: 22 Nov-11 10:56	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 06-5452-4258	Test Type: Growth-Survival (7d)	Analyst:	Start Date: 06 Oct-11 16:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 14:00	Species: Pimephales promelas	Brine: Not Applicable	Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 12-8132-7937	Code: VCF1011059cf	Client: VCWPD	Sample Date: 05 Oct-11 06:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report		Sample Age: 34h (6.5 °C)	Station: MO-SPA	

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	140176	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits

Residual Analysis					
Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.218	2.802	0.4743	No Outliers Detected

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	44.17	21.19	74.5	2.264	1.342	4.719
IC10	58.32	21.8	89.1	1.715	1.122	4.588
IC15	70.28	23.62	N/A	1.423	N/A	4.235
IC20	82.24	26.79	N/A	1.216	N/A	3.733
IC25	94.2	45.9	N/A	1.062	N/A	2.179
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3292	0.278	0.3853	0.008487	0.04648	14.12%	0.0%
6.25		4	0.3995	0.38	0.4253	0.003571	0.01956	4.9%	-21.37%
12.5		4	0.3658	0.3073	0.4087	0.008106	0.0444	12.14%	-11.14%
25		4	0.3982	0.374	0.412	0.003113	0.01705	4.28%	-20.96%
50		4	0.3488	0.2667	0.4	0.01081	0.05922	16.98%	-5.98%
100		4	0.2708	0.23	0.3387	0.008586	0.04703	17.36%	17.72%

Mean Dry Biomass-mg Detail					
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3853	0.278	0.308	0.3453
6.25		0.4027	0.4253	0.39	0.38
12.5		0.3073	0.39	0.4087	0.3573
25		0.408	0.3987	0.412	0.374
50		0.2667	0.4	0.346	0.3827
100		0.2567	0.3387	0.23	0.258

# CETIS Analytical Report

Report Date: 22 Nov-11 10:57 (p 2 of 4)  
Test Code: 03-7849-3989/VCF1011059cfml

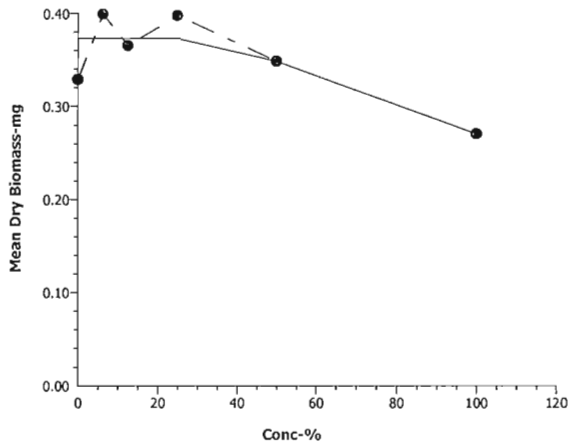
Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 04-5605-3497      Endpoint: Mean Dry Biomass-mg  
Analyzed: 22 Nov-11 10:56      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 10:57 (p 3 of 4)  
 Test Code: 03-7849-3989/VCF1011059cfml

Fathead Minnow 7-d Larval Survival and Growth Test Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 18-6025-9530	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 10:56	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 06-5452-4258	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 16:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 14:00	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 12-8132-7937	Code: VCF1011059cf	Client: VCWPD
Sample Date: 05 Oct-11 06:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 34h (6.5 °C)	Station: MO-SPA	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	140176	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Residual Analysis**

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.737	2.802	0.0670	No Outliers Detected

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	58	45.2	79.49	1.724	1.258	2.212
EC10	76	57.93	N/A	1.316	N/A	1.726
EC15	94	66.27	N/A	1.064	N/A	1.509
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

**7d Survival Rate Summary**

Conc-%	Control Type	Count	Calculated Variate(A/B)								
			Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	1	1	1	0	0	0.0%	0.0%	60	60
6.25		4	1	1	1	0	0	0.0%	0.0%	60	60
12.5		4	0.95	0.8667	1	0.01165	0.06383	6.72%	5.0%	57	60
25		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	1.67%	59	60
50		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	1.67%	59	60
100		4	0.8333	0.6667	0.9333	0.02108	0.1155	13.86%	16.67%	50	60

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		0.8667	0.9333	1	1
25		0.9333	1	1	1
50		1	1	0.9333	1
100		0.8667	0.9333	0.6667	0.8667

# CETIS Analytical Report

Report Date: 22 Nov-11 10:57 (p 4 of 4)

Test Code: 03-7849-3989/VCF1011059cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 18-6025-9530

Endpoint: 7d Survival Rate

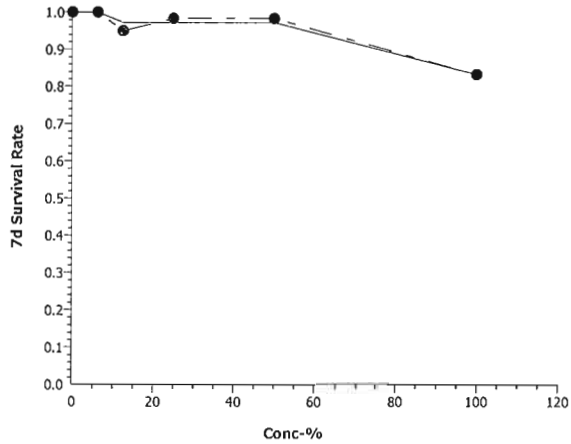
CETIS Version: CETISv1.7.0

Analyzed: 22 Nov-11 10:56

Analysis: Linear Interpolation (ICPIN)

Official Results: Yes

### Graphics



# CETIS Measurement Report

Report Date: 22 Nov-11 10:57 (p 1 of 2)

Test Code: 03-7849-3989/VCF1011059cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 06-5452-4258	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 16:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 14:00	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 12-8132-7937	Code: VCF1011059cf	Client: VCWPD
Sample Date: 05 Oct-11 06:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 34h (6.5 °C)	Station: MO-SPA	

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62	62	62	62	62	0	0	0.0%	0
100		8	74	74	74	74	74	0	0	0.0%	0
Overall		16	68			62	74				0 (0%)

### Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	329.4	325	333.8	311	349	2.162	12.97	3.94%	0
6.25		8	317.3	316.4	318.1	312	319	0.4249	2.55	0.8%	0
12.5		8	298.5	296.6	300.4	289	306	0.9258	5.555	1.86%	0
25		8	273.4	270.4	276.3	265	289	1.453	8.717	3.19%	0
50		8	316.9	314.4	319.3	301	327	1.207	7.24	2.29%	0
100		8	335.9	329.4	342.4	317	366	3.204	19.22	5.72%	0
Overall		48	311.9			265	366				0 (0%)

### Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.875	7.691	8.059	6.8	8.6	0.09074	0.5445	6.91%	0
6.25		8	7.588	7.304	7.871	5.6	8.2	0.1396	0.8374	11.04%	0
12.5		8	7.575	7.309	7.841	5.7	8.1	0.1309	0.7851	10.36%	0
25		8	7.563	7.337	7.788	6.1	8.2	0.1112	0.6675	8.83%	0
50		8	7.55	7.315	7.785	5.9	8.1	0.1158	0.6949	9.2%	0
100		8	7.55	7.25	7.85	5.5	8.3	0.1477	0.8864	11.74%	0
Overall		48	7.617			5.5	8.6				0 (0%)

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	88.5	88.19	88.81	88	90	0.1543	0.9258	1.05%	0
100		8	185	185	185	185	185	0	0	0.0%	0
Overall		16	136.8			88	185				0 (0%)

### pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.963	7.937	7.988	7.8	8	0.0124	0.0744	0.93%	0
6.25		8	7.8	7.717	7.883	7.2	7.9	0.04082	0.2449	3.14%	0
12.5		8	7.738	7.663	7.812	7.2	7.9	0.03666	0.22	2.84%	0
25		8	16.19	8.01	24.36	7.3	76	4.028	24.17	149.3%	0
50		8	7.588	7.542	7.633	7.4	7.8	0.0226	0.1356	1.79%	0
100		8	7.363	7.27	7.455	6.9	7.7	0.04537	0.2722	3.7%	0
Overall		48	9.106			6.9	76				0 (0%)

**CETIS Measurement Report**

Report Date: 22 Nov-11 10:57 (p 2 of 2)  
 Test Code: 03-7849-3989/VCF1011059cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

**Aquatic Bioassay & Consulting Labs, Inc.**

**Temperature-°C**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.05	24.02	24.08	24	24.2	0.01542	0.09255	0.38%	0
6.25		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
12.5		8	24.09	24.04	24.13	24	24.4	0.0226	0.1356	0.56%	0
25		8	24.04	24.02	24.05	24	24.1	0.008611	0.05167	0.22%	0
50		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
100		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
Overall		48	24.04			24	24.4				0 (0%)

**Alkalinity (CaCO3)-mg/L**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	62	62	62	62	62	62	62	62
100		74	74	74	74	74	74	74	74

**Conductivity-µmhos**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	311	349	324	325	325	323	330	348
6.25		319	315	312	317	318	319	319	319
12.5		289	292	298	300	300	300	303	306
25		268	265	268	270	270	272	285	289
50		301	327	320	317	317	318	318	317
100		338	341	330	317	317	318	360	366

**Dissolved Oxygen-mg/L**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.2	8.6	8	8.1	8.1	7.7	7.5	6.8
6.25		7.9	8.2	7.9	8	8	7.7	7.4	5.6
12.5		8	8.1	7.8	7.9	7.9	7.8	7.4	5.7
25		7.4	8.2	8.1	7.9	7.8	7.7	7.3	6.1
50		7.7	8.1	7.8	7.9	7.8	7.8	7.4	5.9
100		8.3	8.1	7.8	7.9	7.8	7.8	7.2	5.5

**Hardness (CaCO3)-mg/L**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	88	88	88	88	88	88
100		185	185	185	185	185	185	185	185

**pH-Units**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	8	8	8	8	8	7.9	7.8
6.25		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.2
12.5		7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.2
25		7.6	7.7	7.6	7.8	7.6	7.7	7.8	7.3
50		7.4	7.5	7.5	7.7	7.7	7.5	7.6	7.8
100		6.9	7.1	7.4	7.6	7.5	7.5	7.7	7.2

**Temperature-°C**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24	24	24	24.2	24	24	24.2
6.25		24	24	24	24.1	24.1	24	24	24
12.5		24	24	24	24.1	24	24.1	24.4	24.1
25		24	24.1	24	24	24	24	24.1	24.1
50		24	24.1	24	24	24	24.1	24	24
100		24	24.2	24	24	24	24	24	24.1





November 23<sup>rd</sup>, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*" EPA-821-R-02-013. Results were as follows:

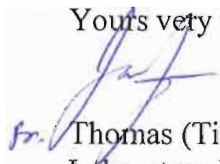
CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-CAM
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.062

#### CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

REPRODUCTION	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director



# CETIS Summary Report

Report Date: 22 Nov-11 11:55 (p 1 of 2)  
 Test Code: 04-8697-4802/VCF1011062cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 03-7309-3893	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 15:06	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 13:10	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 11-1609-4656	Code: VCF1011062cf	Client: VCWPD
Sample Date: 05 Oct-11 07:45	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report	
Sample Age: 31h (8 °C)	Station: MO-CAM	

### Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
14-5609-8694	7d Survival Rate	100	>100	N/A	3.72%	1	Steel Many-One Rank Test
05-8977-4259	Mean Dry Biomass-mg	100	>100	N/A	25.95%	1	Dunnett's Multiple Comparison Test

### Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
13-9211-2986	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
07-5739-3668	Mean Dry Biomass-mg	IC5	70.25	48.04	N/A	1.424	Linear Interpolation (ICPIN)
		IC10	90.5	53.61	N/A	1.105	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	

### Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
13-9211-2986	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
14-5609-8694	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
05-8977-4259	Mean Dry Biomass-mg	Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits
07-5739-3668	Mean Dry Biomass-mg	Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits
05-8977-4259	Mean Dry Biomass-mg	PMSD	0.2595	0.12 - 0.3	Yes	Result Within Limits

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	0.0%
12.5		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	1.67%
25		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	1.67%
50		4	1	1	1	1	1	0	0	0.0%	0.0%
100		4	1	1	1	1	1	0	0	0.0%	0.0%

### Mean Dry Biomass-mg Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3292	0.3118	0.3465	0.278	0.3853	0.008487	0.04648	14.12%	0.0%
6.25		4	0.4272	0.4142	0.4401	0.3913	0.4733	0.006341	0.03473	8.13%	-29.77%
12.5		4	0.4312	0.4152	0.4471	0.3887	0.48	0.007813	0.0428	9.93%	-30.99%
25		4	0.4407	0.4255	0.4558	0.384	0.474	0.007403	0.04055	9.2%	-33.87%
50		4	0.4425	0.418	0.467	0.3827	0.5267	0.012	0.06574	14.86%	-34.43%
100		4	0.363	0.3396	0.3864	0.2733	0.42	0.01146	0.06279	17.3%	-10.28%

# CETIS Summary Report

Report Date: 22 Nov-11 11:55 (p 2 of 2)  
Test Code: 04-8697-4802/VCF1011062cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		0.9333	1	1	1
25		0.9333	1	1	1
50		1	1	1	1
100		1	1	1	1

### Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3853	0.278	0.308	0.3453
6.25		0.4733	0.3913	0.4307	0.4133
12.5		0.3887	0.4533	0.4027	0.48
25		0.474	0.4393	0.384	0.4653
50		0.462	0.5267	0.3987	0.3827
100		0.3807	0.42	0.378	0.2733

**CETIS Analytical Report**

Report Date: 22 Nov-11 11:54 (p 1 of 4)  
 Test Code: 04-8697-4802/VCF1011062cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 05-8977-4259	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 11:54	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 03-7309-3893	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 15:06	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 13:10	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 11-1609-4656	Code: VCF1011062cf	Client: VCWPD
Sample Date: 05 Oct-11 07:45	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report	
Sample Age: 31h (8 °C)	Station: MO-CAM	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	25.95%

**Dunnett's Multiple Comparison Test**

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-2.762	2.407	0.08541	0.9999	Non-Significant Effect
		12.5	-2.875	2.407	0.08541	0.9999	Non-Significant Effect
		25	-3.143	2.407	0.08541	1.0000	Non-Significant Effect
		50	-3.194	2.407	0.08541	1.0000	Non-Significant Effect
		100	-0.9536	2.407	0.08541	0.9804	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits
PMSD	0.2595	0.12 - 0.3	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.02	2.802	0.8604	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.04546748	0.009093496	5	3.612	0.0195	Significant Effect
Error	0.04532001	0.002517778	18			
Total	0.09078749	0.01161127	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.712	15.09	0.8874	Equal Variances
Variances	Mod Levene Equality of Variance	0.4019	4.248	0.8411	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9764		0.8214	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1323	0.2056	0.3367	Normal Distribution
Distribution	D'Agostino Skewness	0.2881	2.576	0.7733	Normal Distribution
Distribution	D'Agostino Kurtosis	0.8239	2.576	0.4100	Normal Distribution
Distribution	D'Agostino Omnibus	0.7618	9.21	0.6832	Normal Distribution

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3292	0.3115	0.3468	0.278	0.3853	0.008632	0.04648	14.12%	0.0%
6.25		4	0.4272	0.414	0.4404	0.3913	0.4733	0.00645	0.03473	8.13%	-29.77%
12.5		4	0.4312	0.4149	0.4474	0.3887	0.48	0.007947	0.0428	9.93%	-30.99%
25		4	0.4407	0.4252	0.4561	0.384	0.474	0.00753	0.04055	9.2%	-33.87%
50		4	0.4425	0.4175	0.4675	0.3827	0.5267	0.01221	0.06574	14.86%	-34.43%
100		4	0.363	0.3391	0.3869	0.2733	0.42	0.01166	0.06279	17.3%	-10.28%

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

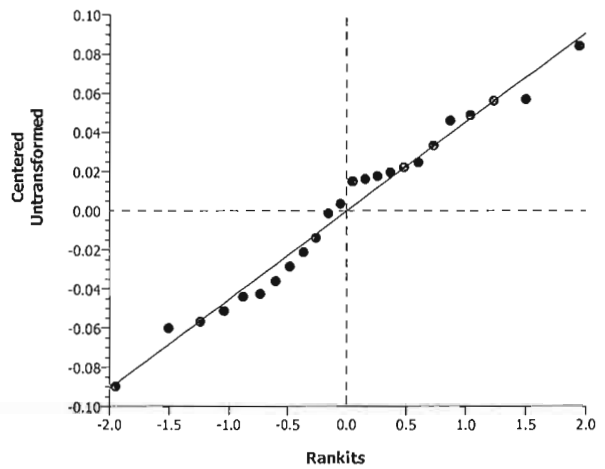
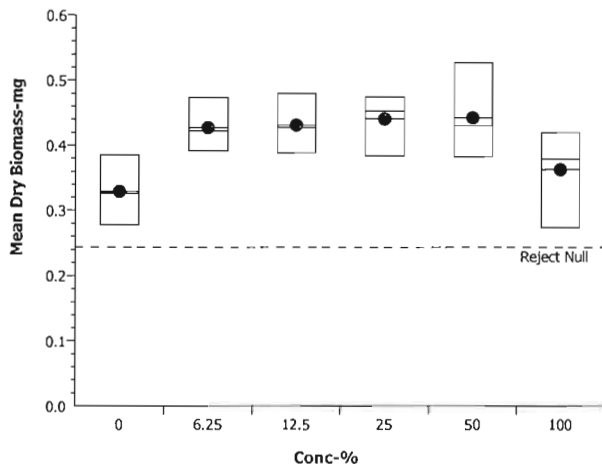
Analysis ID: 05-8977-4259      Endpoint: Mean Dry Biomass-mg  
 Analyzed: 22 Nov-11 11:54      Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3853	0.278	0.308	0.3453
6.25		0.4733	0.3913	0.4307	0.4133
12.5		0.3887	0.4533	0.4027	0.48
25		0.474	0.4393	0.384	0.4653
50		0.462	0.5267	0.3987	0.3827
100		0.3807	0.42	0.378	0.2733

Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 11:54 (p 3 of 4)  
 Test Code: 04-8697-4802/VCF1011062cfml

Fathead Minnow 7-d Larval Survival and Growth Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	14-5609-8694	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0		
Analyzed:	22 Nov-11 11:40	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes		
Batch ID:	03-7309-3893	Test Type:	Growth-Survival (7d)	Analyst:			
Start Date:	06 Oct-11 15:06	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water		
Ending Date:	13 Oct-11 13:10	Species:	Pimephales promelas	Brine:	Not Applicable		
Duration:	6d 22h	Source:	Aquatic Biosystems, CO	Age:			
Sample ID:	11-1609-4656	Code:	VCF1011062cf	Client:	VCWPD		
Sample Date:	05 Oct-11 07:45	Material:	Sample Water	Project:	2010/11-1 (Wet)		
Receive Date:	05 Oct-11 14:29	Source:	Bioassay Report				
Sample Age:	31h (8 °C)	Station:	MO-CAM				

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	3.72%

**Steel Many-One Rank Test**

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	18	10	1	0.8333	Non-Significant Effect
		12.5	16	10	1	0.6105	Non-Significant Effect
		25	16	10	1	0.6105	Non-Significant Effect
		50	18	10	1	0.8333	Non-Significant Effect
		100	18	10	1	0.8333	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.937	2.802	0.0259	Outlier Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.005781335	0.001156267	5	0.8	0.5640	Non-Significant Effect
Error	0.02601601	0.001445334	18			
Total	0.03179734	0.002601601	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	0.8	4.248	0.5640	Equal Variances
Distribution	Shapiro-Wilk Normality	0.6154		<0.0001	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.4167	0.2056	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	3.704	2.576	0.0002	Non-normal Distribution
Distribution	D'Agostino Kurtosis	3.005	2.576	0.0027	Non-normal Distribution
Distribution	D'Agostino Omnibus	22.75	9.21	<0.0001	Non-normal Distribution

# CETIS Analytical Report

Report Date: 22 Nov-11 11:54 (p 4 of 4)

Test Code: 04-8697-4802/CF1011062cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 14-5609-8694

Endpoint: 7d Survival Rate

CETIS Version: CETISv1.7.0

Analyzed: 22 Nov-11 11:40

Analysis: Nonparametric-Control vs Treatments

Official Results: Yes

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	0.0%
12.5		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	1.67%
25		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	1.67%
50		4	1	1	1	1	1	0	0	0.0%	0.0%
100		4	1	1	1	1	1	0	0	0.0%	0.0%

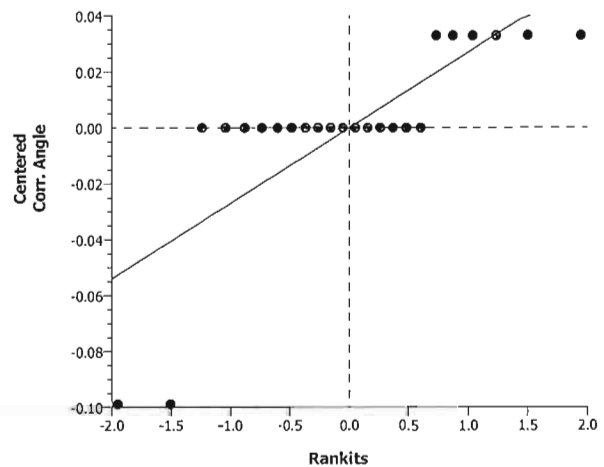
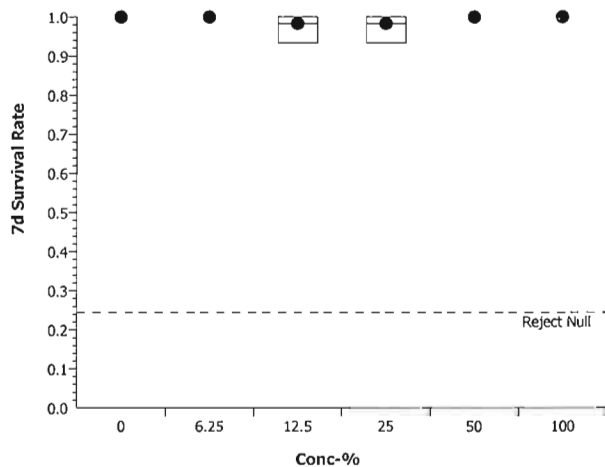
### Angular (Corrected) Transformed Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	0.0%
6.25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	0.0%
12.5		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	2.28%
25		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	2.28%
50		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	0.0%
100		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	0.0%

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		0.9333	1	1	1
25		0.9333	1	1	1
50		1	1	1	1
100		1	1	1	1

### Graphics





**CETIS Analytical Report**

Report Date: 22 Nov-11 11:54 (p 1 of 4)  
 Test Code: 04-8697-4802/VCF1011062cfml

<b>Fathead Minnow 7-d Larval Survival and Growth Test</b>			<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>		
Analysis ID: 07-5739-3668	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0			
Analyzed: 22 Nov-11 11:54	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes			
Batch ID: 03-7309-3893	Test Type: Growth-Survival (7d)	Analyst:			
Start Date: 06 Oct-11 15:06	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water			
Ending Date: 13 Oct-11 13:10	Species: Pimephales promelas	Brine: Not Applicable			
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:			
Sample ID: 11-1609-4656	Code: VCF1011062cf	Client: VCWPD			
Sample Date: 05 Oct-11 07:45	Material: Sample Water	Project: 2010/11-1 (Wet)			
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report				
Sample Age: 31h (8 °C)	Station: MO-CAM				

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	8626193	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits

Residual Analysis					
Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.02	2.802	0.8604	No Outliers Detected

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	70.25	48.04	N/A	1.424	N/A	2.081
IC10	90.5	53.61	N/A	1.105	N/A	1.865
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Mean Dry Biomass-mg Summary			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3292	0.278	0.3853	0.008487	0.04648	14.12%	0.0%
6.25		4	0.4272	0.3913	0.4733	0.006341	0.03473	8.13%	-29.77%
12.5		4	0.4312	0.3887	0.48	0.007813	0.0428	9.93%	-30.99%
25		4	0.4407	0.384	0.474	0.007403	0.04055	9.2%	-33.87%
50		4	0.4425	0.3827	0.5267	0.012	0.06574	14.86%	-34.43%
100		4	0.363	0.2733	0.42	0.01146	0.06279	17.3%	-10.28%

Mean Dry Biomass-mg Detail					
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3853	0.278	0.308	0.3453
6.25		0.4733	0.3913	0.4307	0.4133
12.5		0.3887	0.4533	0.4027	0.48
25		0.474	0.4393	0.384	0.4653
50		0.462	0.5267	0.3987	0.3827
100		0.3807	0.42	0.378	0.2733

# CETIS Analytical Report

Report Date: 22 Nov-11 11:55 (p 2 of 4)  
Test Code: 04-8697-4802/VCF1011062cfml

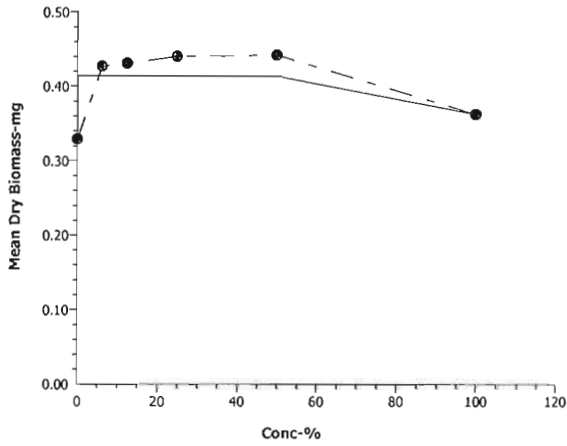
Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 07-5739-3668      Endpoint: Mean Dry Biomass-mg  
Analyzed: 22 Nov-11 11:54      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics





# CETIS Analytical Report

Report Date: 22 Nov-11 11:55 (p 3 of 4)  
 Test Code: 04-8697-4802/VCF1011062cfml

Fathead Minnow 7-d Larval Survival and Growth Test			Aquatic Bioassay & Consulting Labs, Inc.		
Analysis ID:	13-9211-2986	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0
Analyzed:	22 Nov-11 11:40	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	03-7309-3893	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	06 Oct-11 15:06	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water
Ending Date:	13 Oct-11 13:10	Species:	Pimephales promelas	Brine:	Not Applicable
Duration:	6d 22h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	11-1609-4656	Code:	VCF1011062cf	Client:	VCWPD
Sample Date:	05 Oct-11 07:45	Material:	Sample Water	Project:	2010/11-1 (Wet)
Receive Date:	05 Oct-11 14:29	Source:	Bioassay Report		
Sample Age:	31h (8 °C)	Station:	MO-CAM		

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7607236	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary			Calculated Variate(A/B)									
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B	
0	Negative Control	4	1	1	1	0	0	0.0%	0.0%	60	60	
6.25		4	1	1	1	0	0	0.0%	0.0%	60	60	
12.5		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	1.67%	59	60	
25		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	1.67%	59	60	
50		4	1	1	1	0	0	0.0%	0.0%	60	60	
100		4	1	1	1	0	0	0.0%	0.0%	60	60	

7d Survival Rate Detail					
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		0.9333	1	1	1
25		0.9333	1	1	1
50		1	1	1	1
100		1	1	1	1

# CETIS Analytical Report

Report Date: 22 Nov-11 11:55 (p 4 of 4)  
Test Code: 04-8697-4802/VCF1011062cfml

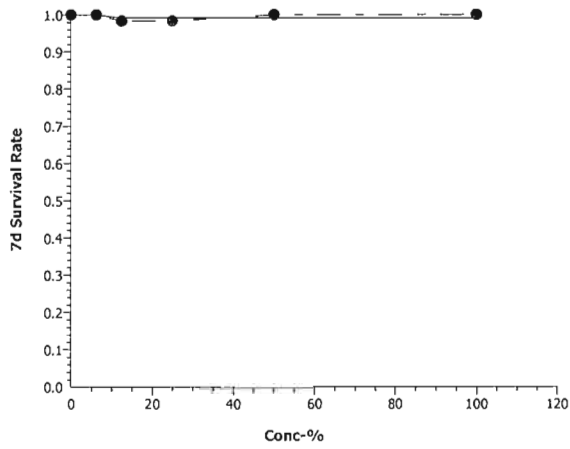
Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 13-9211-2986      Endpoint: 7d Survival Rate  
Analyzed: 22 Nov-11 11:40      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



# CETIS Measurement Report

Report Date: 22 Nov-11 11:55 (p 1 of 2)  
 Test Code: 04-8697-4802/VCF1011062cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 03-7309-3893	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 15:06	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 13:10	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 11-1609-4656	Code: VCF1011062cf	Client: VCWPD
Sample Date: 05 Oct-11 07:45	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report	
Sample Age: 31h (8 °C)	Station: MO-CAM	

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62	62	62	62	62	0	0	0.0%	0
100		8	37	37	37	37	37	0	0	0.0%	0
Overall		16	49.5			37	62				0 (0%)

### Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	329.4	325	333.8	311	349	2.162	12.97	3.94%	0
6.25		8	314.1	312.6	315.6	308	319	0.737	4.422	1.41%	0
12.5		8	298.5	296.6	300.4	289	306	0.9258	5.555	1.86%	0
25		8	273.4	270.4	276.3	265	289	1.453	8.717	3.19%	0
50		8	202.5	194.8	210.2	190	258	3.773	22.64	11.18%	0
100		8	238.9	225.9	251.8	220	333	6.377	38.26	16.02%	0
Overall		48	276.1			190	349				0 (0%)

### Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.875	7.691	8.059	6.8	8.6	0.09074	0.5445	6.91%	0
6.25		8	7.588	7.304	7.871	5.6	8.2	0.1396	0.8374	11.04%	0
12.5		8	7.575	7.309	7.841	5.7	8.1	0.1309	0.7851	10.36%	0
25		8	7.563	7.337	7.788	6.1	8.2	0.1112	0.6675	8.83%	0
50		8	7.55	7.315	7.785	5.9	8.1	0.1158	0.6949	9.2%	0
100		8	7.55	7.25	7.85	5.5	8.3	0.1477	0.8864	11.74%	0
Overall		48	7.617			5.5	8.6				0 (0%)

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	88.5	88.19	88.81	88	90	0.1543	0.9258	1.05%	0
100		8	70	70	70	70	70	0	0	0.0%	0
Overall		16	79.25			70	90				0 (0%)

### pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.963	7.937	7.988	7.8	8	0.0124	0.0744	0.93%	0
6.25		8	7.8	7.717	7.883	7.2	7.9	0.04082	0.2449	3.14%	0
12.5		8	7.738	7.663	7.812	7.2	7.9	0.03666	0.22	2.84%	0
25		8	16.19	8.01	24.36	7.3	76	4.028	24.17	149.3%	0
50		8	7.588	7.542	7.633	7.4	7.8	0.0226	0.1356	1.79%	0
100		8	7.363	7.27	7.455	6.9	7.7	0.04537	0.2722	3.7%	0
Overall		48	9.106			6.9	76				0 (0%)

**CETIS Measurement Report**

Report Date: 22 Nov-11 11:55 (p 2 of 2)  
 Test Code: 04-8697-4802/VCF1011062cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

**Temperature-°C**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.05	24.02	24.08	24	24.2	0.01542	0.09255	0.38%	0
6.25		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
12.5		8	24.09	24.04	24.13	24	24.4	0.0226	0.1356	0.56%	0
25		8	24.04	24.02	24.05	24	24.1	0.008611	0.05167	0.22%	0
50		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
100		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
Overall		48	24.04			24	24.4				0 (0%)

**Alkalinity (CaCO3)-mg/L**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	62	62	62	62	62	62	62	62
100		37	37	37	37	37	37	37	37

**Conductivity-µmhos**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	311	349	324	325	325	323	330	348
6.25		308	309	310	315	317	317	319	318
12.5		289	292	298	300	300	300	303	306
25		268	265	268	270	270	272	285	289
50		190	196	195	198	195	198	190	258
100		234	225	220	225	222	224	228	333

**Dissolved Oxygen-mg/L**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.2	8.6	8	8.1	8.1	7.7	7.5	6.8
6.25		7.9	8.2	7.9	8	8	7.7	7.4	5.6
12.5		8	8.1	7.8	7.9	7.9	7.8	7.4	5.7
25		7.4	8.2	8.1	7.9	7.8	7.7	7.3	6.1
50		7.7	8.1	7.8	7.9	7.8	7.8	7.4	5.9
100		8.3	8.1	7.8	7.9	7.8	7.8	7.2	5.5

**Hardness (CaCO3)-mg/L**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	88	88	88	88	88	88
100		70	70	70	70	70	70	70	70

**pH-Units**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	8	8	8	8	8	7.9	7.8
6.25		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.2
12.5		7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.2
25		7.6	7.7	7.6	7.8	7.6	7.7	7.8	7.3
50		7.4	7.5	7.5	7.7	7.7	7.5	7.6	7.8
100		6.9	7.1	7.4	7.6	7.5	7.5	7.7	7.2

**Temperature-°C**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24	24	24	24.2	24	24	24.2
6.25		24	24	24	24.1	24.1	24	24	24
12.5		24	24	24	24.1	24	24.1	24.4	24.1
25		24	24.1	24	24	24	24	24.1	24.1
50		24	24.1	24	24	24	24.1	24	24
100		24	24.2	24	24	24	24	24	24.1



November 23<sup>rd</sup>, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*" EPA-821-R-02-013. Results were as follows:


CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-OXN
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.063

#### CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

REPRODUCTION	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,



Thomas (Tim) Mikel  
Laboratory Director

**CETIS Summary Report**

Report Date: 22 Nov-11 12:15 (p 1 of 2)  
 Test Code: 14-5866-5983/VCF1011063cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

<b>Batch ID:</b> 10-3619-6860	<b>Test Type:</b> Growth-Survival (7d)	<b>Analyst:</b>
<b>Start Date:</b> 06 Oct-11 15:10	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> Laboratory Water
<b>Ending Date:</b> 13 Oct-11 13:15	<b>Species:</b> Pimephales promelas	<b>Brine:</b> Not Applicable
<b>Duration:</b> 6d 22h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b>
<b>Sample ID:</b> 03-0498-6778	<b>Code:</b> VCF1011063cf	<b>Client:</b> VCWPD
<b>Sample Date:</b> 05 Oct-11 06:55	<b>Material:</b> Sample Water	<b>Project:</b> 2010/11-1 (Wet)
<b>Receive Date:</b> 05 Oct-11 14:29	<b>Source:</b> Bioassay Report	
<b>Sample Age:</b> 32h (8 °C)	<b>Station:</b> MO-OXN	

**Comparison Summary**

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
02-2275-7562	7d Survival Rate	100	>100	N/A	3.92%	1	Steel Many-One Rank Test
21-1006-2933	Mean Dry Biomass-mg	100	>100	N/A	16.39%	1	Dunnett's Multiple Comparison Test

**Point Estimate Summary**

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
20-8398-0017	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
17-7946-3803	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

**Test Acceptability**

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
02-2275-7562	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
20-8398-0017	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
17-7946-3803	Mean Dry Biomass-mg	Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits
21-1006-2933	Mean Dry Biomass-mg	Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits
21-1006-2933	Mean Dry Biomass-mg	PMSD	0.1639	0.12 - 0.3	Yes	Result Within Limits

**7d Survival Rate Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	0.0%
12.5		4	1	1	1	1	1	0	0	0.0%	0.0%
25		4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	1.67%
50		4	0.9667	0.9523	0.981	0.9333	1	0.007027	0.03849	3.98%	3.33%
100		4	1	1	1	1	1	0	0	0.0%	0.0%

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3292	0.3118	0.3465	0.278	0.3853	0.008487	0.04648	14.12%	0.0%
6.25		4	0.4032	0.3894	0.417	0.3767	0.4553	0.006742	0.03693	9.16%	-22.48%
12.5		4	0.3843	0.3826	0.3861	0.3793	0.3907	0.000858	0.004698	1.22%	-16.76%
25		4	0.3862	0.3767	0.3956	0.3493	0.4067	0.004607	0.02524	6.54%	-17.32%
50		4	0.3942	0.3795	0.4088	0.3607	0.436	0.007171	0.03928	9.96%	-19.75%
100		4	0.4032	0.3967	0.4097	0.388	0.422	0.003184	0.01744	4.33%	-22.48%

# CETIS Summary Report

Report Date: 22 Nov-11 12:15 (p 2 of 2)

Test Code: 14-5866-5983/VCF1011063cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		1	0.9333	1	1
50		0.9333	1	1	0.9333
100		1	1	1	1

### Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3853	0.278	0.308	0.3453
6.25		0.4033	0.4553	0.3767	0.3773
12.5		0.3833	0.3793	0.3907	0.384
25		0.4067	0.3947	0.394	0.3493
50		0.3607	0.3607	0.436	0.4193
100		0.388	0.3887	0.414	0.422



**CETIS Analytical Report**

Report Date: 22 Nov-11 12:15 (p 1 of 4)  
 Test Code: 14-5866-5983/VCF1011063cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 21-1006-2933	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 12:14	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 10-3619-6860	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 15:10	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 13:15	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 03-0498-6778	Code: VCF1011063cf	Client: VCWPD
Sample Date: 05 Oct-11 06:55	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report	
Sample Age: 32h (8 °C)	Station: MO-OXN	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	16.39%

**Dunnett's Multiple Comparison Test**

Control	vs	Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		6.25	-3.301	2.407	0.05396	1.0000	Non-Significant Effect
		12.5	-2.461	2.407	0.05396	0.9998	Non-Significant Effect
		25	-2.543	2.407	0.05396	0.9998	Non-Significant Effect
		50	-2.9	2.407	0.05396	0.9999	Non-Significant Effect
		100	-3.301	2.407	0.05396	1.0000	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits
PMSD	0.1639	0.12 - 0.3	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.003	2.802	0.9033	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.01538854	0.003077707	5	3.062	0.0358	Significant Effect
Error	0.01809011	0.001005006	18			
Total	0.03347865	0.004082714	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	10.55	15.09	0.0612	Equal Variances
Variances	Mod Levene Equality of Variance	2.395	4.248	0.0784	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9755		0.8019	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.07243	0.2056	1.0000	Normal Distribution
Distribution	D'Agostino Skewness	0.5739	2.576	0.5661	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2436	2.576	0.8075	Normal Distribution
Distribution	D'Agostino Omnibus	0.3887	9.21	0.8234	Normal Distribution

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3292	0.3115	0.3468	0.278	0.3853	0.008632	0.04648	14.12%	0.0%
6.25		4	0.4032	0.3891	0.4172	0.3767	0.4553	0.006857	0.03693	9.16%	-22.48%
12.5		4	0.3843	0.3825	0.3861	0.3793	0.3907	0.000872	0.004698	1.22%	-16.76%
25		4	0.3862	0.3766	0.3958	0.3493	0.4067	0.004686	0.02524	6.54%	-17.32%
50		4	0.3942	0.3792	0.4091	0.3607	0.436	0.007293	0.03928	9.96%	-19.75%
100		4	0.4032	0.3965	0.4098	0.388	0.422	0.003238	0.01744	4.33%	-22.48%



Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

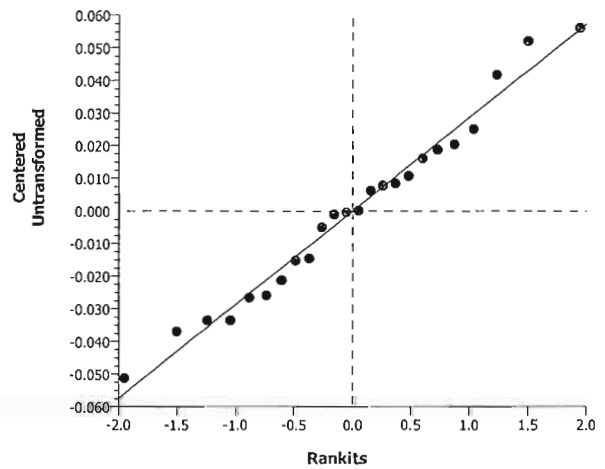
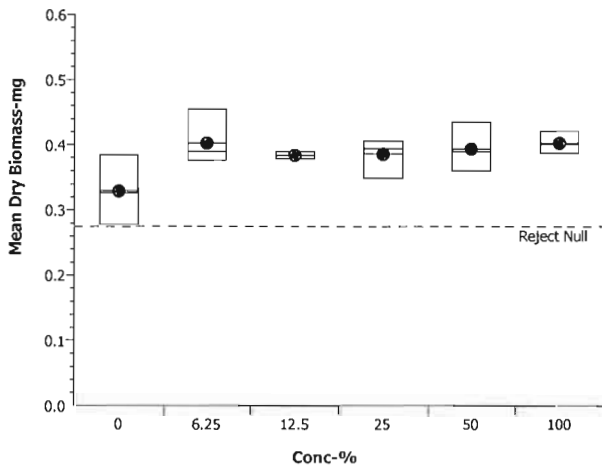
Analysis ID: 21-1006-2933 Endpoint: Mean Dry Biomass-mg  
 Analyzed: 22 Nov-11 12:14 Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3853	0.278	0.308	0.3453
6.25		0.4033	0.4553	0.3767	0.3773
12.5		0.3833	0.3793	0.3907	0.384
25		0.4067	0.3947	0.394	0.3493
50		0.3607	0.3607	0.436	0.4193
100		0.388	0.3887	0.414	0.422

Graphics



# CETIS Analytical Report

Report Date: 22 Nov-11 12:15 (p 3 of 4)  
 Test Code: 14-5866-5983/VCF1011063cfml

Fathead Minnow 7-d Larval Survival and Growth Test			Aquatic Bioassay & Consulting Labs, Inc.		
Analysis ID: 02-2275-7562	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0			
Analyzed: 22 Nov-11 12:14	Analysis: Nonparametric-Control vs Treatments	Official Results: Yes			
Batch ID: 10-3619-6860	Test Type: Growth-Survival (7d)	Analyst:			
Start Date: 06 Oct-11 15:10	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water			
Ending Date: 13 Oct-11 13:15	Species: Pimephales promelas	Brine: Not Applicable			
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:			
Sample ID: 03-0498-6778	Code: VCF1011063cf	Client: VCWPD			
Sample Date: 05 Oct-11 06:55	Material: Sample Water	Project: 2010/11-1 (Wet)			
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report				
Sample Age: 32h (8 °C)	Station: MO-OXN				

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	100	>100	N/A	1	3.92%

Steel Many-One Rank Test						
Control	vs Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control	6.25	18	10	1	0.8333	Non-Significant Effect
	12.5	18	10	1	0.8333	Non-Significant Effect
	25	16	10	1	0.6105	Non-Significant Effect
	50	14	10	1	0.3451	Non-Significant Effect
	100	18	10	1	0.8333	Non-Significant Effect

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Auxiliary Tests					
Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.719	2.802	0.0725	No Outliers Detected

ANOVA Table						
Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.015176	0.003035201	5	1.8	0.1637	Non-Significant Effect
Error	0.03035201	0.001686223	18			
Total	0.04552801	0.004721424	23			

ANOVA Assumptions					
Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	4.2	4.248	0.0105	Equal Variances
Distribution	Shapiro-Wilk Normality	0.7721		0.0001	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.375	0.2056	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	1.791	2.576	0.0733	Normal Distribution
Distribution	D'Agostino Kurtosis	1.912	2.576	0.0559	Normal Distribution
Distribution	D'Agostino Omnibus	6.862	9.21	0.0323	Normal Distribution

# CETIS Analytical Report

Report Date: 22 Nov-11 12:15 (p 4 of 4)  
 Test Code: 14-5866-5983/CF1011063cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 02-2275-7562      Endpoint: 7d Survival Rate  
 Analyzed: 22 Nov-11 12:14      Analysis: Nonparametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	0.0%
12.5		4	1	1	1	1	1	0	0	0.0%	0.0%
25		4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	1.67%
50		4	0.9667	0.952	0.9813	0.9333	1	0.007147	0.03849	3.98%	3.33%
100		4	1	1	1	1	1	0	0	0.0%	0.0%

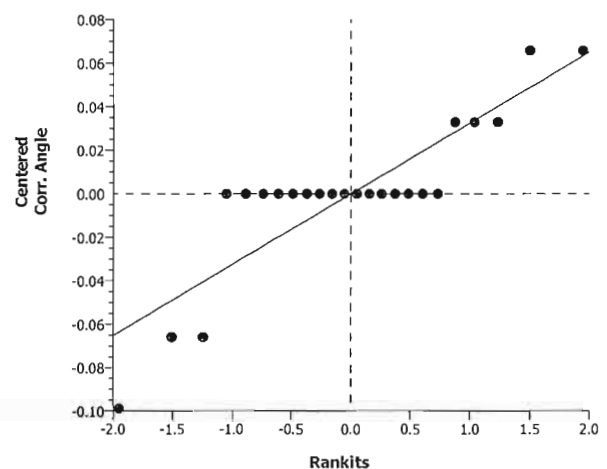
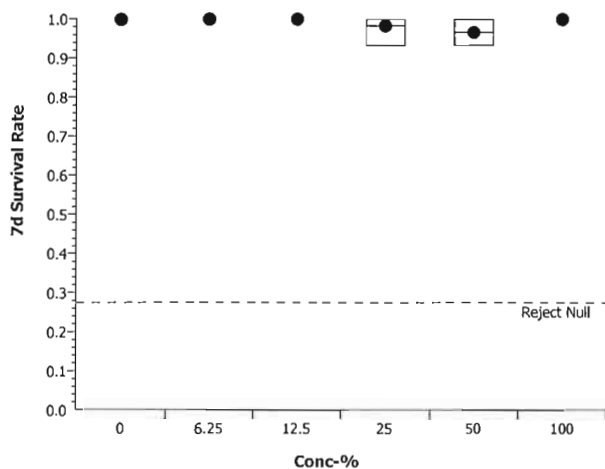
### Angular (Corrected) Transformed Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	0.0%
6.25		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	0.0%
12.5		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	0.0%
25		4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	2.28%
50		4	1.375	1.347	1.404	1.31	1.441	0.01412	0.07603	5.53%	4.57%
100		4	1.441	1.441	1.441	1.441	1.441	0	0	0.0%	0.0%

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		1	0.9333	1	1
50		0.9333	1	1	0.9333
100		1	1	1	1

### Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 12:15 (p 1 of 4)  
 Test Code: 14-5866-5983/VCF1011063cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 17-7946-3803	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 12:14	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 10-3619-6860	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 15:10	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 13:15	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 03-0498-6778	Code: VCF1011063cf	Client: VCWPD
Sample Date: 05 Oct-11 06:55	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report	
Sample Age: 32h (8 °C)	Station: MO-OXN	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7904800	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3292	0.25 - NL	Yes	Result Within Limits

**Residual Analysis**

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.003	2.802	0.9033	No Outliers Detected

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

**Mean Dry Biomass-mg Summary**

Conc-%	Control Type	Count	Calculated Variate						
			Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3292	0.278	0.3853	0.008487	0.04648	14.12%	0.0%
6.25		4	0.4032	0.3767	0.4553	0.006742	0.03693	9.16%	-22.48%
12.5		4	0.3843	0.3793	0.3907	0.000858	0.004698	1.22%	-16.76%
25		4	0.3862	0.3493	0.4067	0.004607	0.02524	6.54%	-17.32%
50		4	0.3942	0.3607	0.436	0.007171	0.03928	9.96%	-19.75%
100		4	0.4032	0.388	0.422	0.003184	0.01744	4.33%	-22.48%

**Mean Dry Biomass-mg Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.3853	0.278	0.308	0.3453
6.25		0.4033	0.4553	0.3767	0.3773
12.5		0.3833	0.3793	0.3907	0.384
25		0.4067	0.3947	0.394	0.3493
50		0.3607	0.3607	0.436	0.4193
100		0.388	0.3887	0.414	0.422

# CETIS Analytical Report

Report Date: 22 Nov-11 12:15 (p 2 of 4)

Test Code: 14-5866-5983/VCF1011063cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 17-7946-3803

Endpoint: Mean Dry Biomass-mg

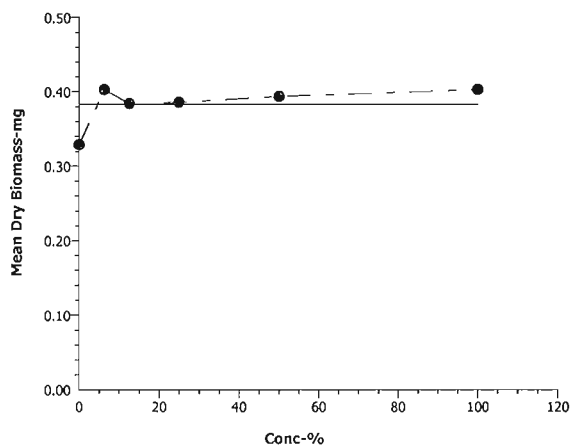
CETIS Version: CETISv1.7.0

Analyzed: 22 Nov-11 12:14

Analysis: Linear Interpolation (ICPIN)

Official Results: Yes

### Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 12:15 (p 3 of 4)  
 Test Code: 14-5866-5983/VCF1011063cfml

<b>Fathead Minnow 7-d Larval Survival and Growth Test</b>		<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>	
Analysis ID: 20-8398-0017	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0	
Analyzed: 22 Nov-11 12:14	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes	
Batch ID: 10-3619-6860	Test Type: Growth-Survival (7d)	Analyst:	
Start Date: 06 Oct-11 15:10	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water	
Ending Date: 13 Oct-11 13:15	Species: Pimephales promelas	Brine: Not Applicable	
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:	
Sample ID: 03-0498-6778	Code: VCF1011063cf	Client: VCWPD	
Sample Date: 05 Oct-11 06:55	Material: Sample Water	Project: 2010/11-1 (Wet)	
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report		
Sample Age: 32h (8 °C)	Station: MO-OXN		

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7904800	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

Residual Analysis					
Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.719	2.802	0.0725	No Outliers Detected

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

7d Survival Rate Summary			Calculated Variate(A/B)									
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B	
0	Negative Control	4	1	1	1	0	0	0.0%	0.0%	60	60	
6.25		4	1	1	1	0	0	0.0%	0.0%	60	60	
12.5		4	1	1	1	0	0	0.0%	0.0%	60	60	
25		4	0.9833	0.9333	1	0.006086	0.03333	3.39%	1.67%	59	60	
50		4	0.9667	0.9333	1	0.007027	0.03849	3.98%	3.33%	58	60	
100		4	1	1	1	0	0	0.0%	0.0%	60	60	

7d Survival Rate Detail					
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		1	0.9333	1	1
50		0.9333	1	1	0.9333
100		1	1	1	1

# CETIS Analytical Report

Report Date: 22 Nov-11 12:15 (p 4 of 4)

Test Code: 14-5866-5983/VCF1011063cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 20-8398-0017

Endpoint: 7d Survival Rate

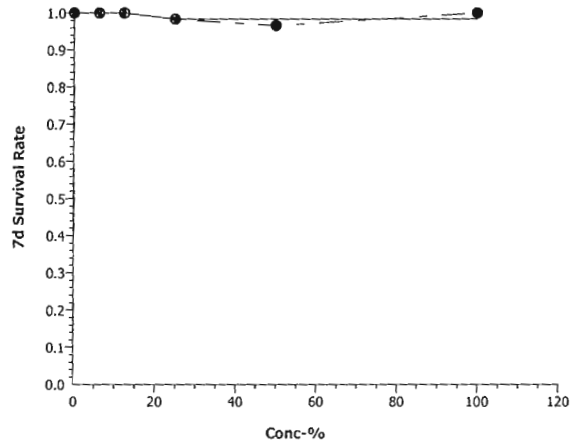
CETIS Version: CETISv1.7.0

Analyzed: 22 Nov-11 12:14

Analysis: Linear Interpolation (ICPIN)

Official Results: Yes

### Graphics





**CETIS Measurement Report**

Report Date: 22 Nov-11 12:15 (p 1 of 2)  
 Test Code: 14-5866-5983/VCF1011063cfml

**Fathead Minnow 7-d Larval Survival and Growth Test**

**Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID: 10-3619-6860      Test Type: Growth-Survival (7d)      Analyst:  
 Start Date: 06 Oct-11 15:10      Protocol: EPA/821/R-02-013 (2002)      Diluent: Laboratory Water  
 Ending Date: 13 Oct-11 13:15      Species: Pimephales promelas      Brine: Not Applicable  
 Duration: 6d 22h      Source: Aquatic Biosystems, CO      Age:

Sample ID: 03-0498-6778      Code: VCF1011063cf      Client: VCWPD  
 Sample Date: 05 Oct-11 06:55      Material: Sample Water      Project: 2010/11-1 (Wet)  
 Receive Date: 05 Oct-11 14:29      Source: Bioassay Report  
 Sample Age: 32h (8 °C)      Station: MO-OXN

**Alkalinity (CaCO3)-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62	62	62	62	62	0	0	0.0%	0
100		8	49	49	49	49	49	0	0	0.0%	0
Overall		16	55.5			49	62				0 (0%)

**Conductivity-µmhos**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	329.4	325	333.8	311	349	2.162	12.97	3.94%	0
6.25		8	314.1	312.6	315.6	308	319	0.737	4.422	1.41%	0
12.5		8	298.5	296.6	300.4	289	306	0.9258	5.555	1.86%	0
25		8	273.4	270.4	276.3	265	289	1.453	8.717	3.19%	0
50		8	202.5	194.8	210.2	190	258	3.773	22.64	11.18%	0
100		8	291.8	288.7	294.8	282	306	1.511	9.067	3.11%	0
Overall		48	284.9			190	349				0 (0%)

**Dissolved Oxygen-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.875	7.691	8.059	6.8	8.6	0.09074	0.5445	6.91%	0
6.25		8	7.588	7.304	7.871	5.6	8.2	0.1396	0.8374	11.04%	0
12.5		8	7.575	7.309	7.841	5.7	8.1	0.1309	0.7851	10.36%	0
25		8	7.563	7.337	7.788	6.1	8.2	0.1112	0.6675	8.83%	0
50		8	7.55	7.315	7.785	5.9	8.1	0.1158	0.6949	9.2%	0
100		8	7.55	7.25	7.85	5.5	8.3	0.1477	0.8864	11.74%	0
Overall		48	7.617			5.5	8.6				0 (0%)

**Hardness (CaCO3)-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	88.5	88.19	88.81	88	90	0.1543	0.9258	1.05%	0
100		8	106	106	106	106	106	0	0	0.0%	0
Overall		16	97.25			88	106				0 (0%)

**pH-Units**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.963	7.937	7.988	7.8	8	0.0124	0.0744	0.93%	0
6.25		8	7.8	7.717	7.883	7.2	7.9	0.04082	0.2449	3.14%	0
12.5		8	7.738	7.663	7.812	7.2	7.9	0.03666	0.22	2.84%	0
25		8	16.19	8.01	24.36	7.3	76	4.028	24.17	149.3%	0
50		8	7.588	7.542	7.633	7.4	7.8	0.0226	0.1356	1.79%	0
100		8	7.363	7.27	7.455	6.9	7.7	0.04537	0.2722	3.7%	0
Overall		48	9.106			6.9	76				0 (0%)



# CETIS Measurement Report

Report Date: 22 Nov-11 12:15 (p 2 of 2)

Test Code: 14-5866-5983/VCF1011063cfml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.05	24.02	24.08	24	24.2	0.01542	0.09255	0.38%	0
6.25		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
12.5		8	24.09	24.04	24.13	24	24.4	0.0226	0.1356	0.56%	0
25		8	24.04	24.02	24.05	24	24.1	0.008611	0.05167	0.22%	0
50		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
100		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
Overall		48	24.04			24	24.4				0 (0%)

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	62	62	62	62	62	62	62	62
100		49	49	49	49	49	49	49	49

### Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	311	349	324	325	325	323	330	348
6.25		308	309	310	315	317	317	319	318
12.5		289	292	298	300	300	300	303	306
25		268	265	268	270	270	272	285	289
50		190	196	195	198	195	198	190	258
100		282	285	285	289	290	292	306	305

### Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.2	8.6	8	8.1	8.1	7.7	7.5	6.8
6.25		7.9	8.2	7.9	8	8	7.7	7.4	5.6
12.5		8	8.1	7.8	7.9	7.9	7.8	7.4	5.7
25		7.4	8.2	8.1	7.9	7.8	7.7	7.3	6.1
50		7.7	8.1	7.8	7.9	7.8	7.8	7.4	5.9
100		8.3	8.1	7.8	7.9	7.8	7.8	7.2	5.5

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	88	88	88	88	88	88
100		106	106	106	106	106	106	106	106

### pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	8	8	8	8	8	7.9	7.8
6.25		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.2
12.5		7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.2
25		7.6	7.7	7.6	7.8	7.6	7.7	7.8	7.3
50		7.4	7.5	7.5	7.7	7.7	7.5	7.6	7.8
100		6.9	7.1	7.4	7.6	7.5	7.5	7.7	7.2

### Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24	24	24	24.2	24	24	24.2
6.25		24	24	24	24.1	24.1	24	24	24
12.5		24	24	24	24.1	24	24.1	24.4	24.1
25		24	24.1	24	24	24	24	24.1	24.1
50		24	24.1	24	24	24	24.1	24	24
100		24	24.2	24	24	24	24	24	24.1



November 23, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

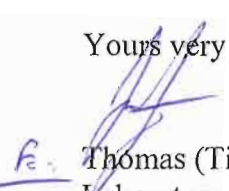
We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*" EPA-821-R-02-013. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-VEN
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.052

#### CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

# CETIS Summary Report

Report Date: 22 Nov-11 13:28 (p 1 of 2)  
 Test Code: 09-2776-3180/VCF1011052ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 19-9699-8152	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:30	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 13-1319-6553	Code: VCF1011052cc	Client: VCWPD
Sample Date: 05 Oct-11 06:30	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 9h (8 °C)	Station: MO-VEN	

### Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
07-9907-7114	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
06-6009-9671	Reproduction	100	>100	N/A	21.05%	1	Steel Many-One Rank Test

### Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
13-9744-9524	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
00-1256-0917	Reproduction	IC5	14.78	2.276	22.23	6.766	Linear Interpolation (ICPIN)
		IC10	19.58	4.552	N/A	5.107	
		IC15	24.38	11.37	N/A	4.102	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

### Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
07-9907-7114	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
13-9744-9524	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
00-1256-0917	Reproduction	Control Resp	17	15 - NL	Yes	Result Within Limits
06-6009-9671	Reproduction	Control Resp	17	15 - NL	Yes	Result Within Limits
06-6009-9671	Reproduction	PMSD	0.2105	0.13 - 0.47	Yes	Result Within Limits

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

### Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	17	15.41	18.59	9	24	0.7794	4.269	25.11%	0.0%
6.25		10	17.3	16.2	18.4	12	21	0.5378	2.946	17.03%	-1.77%
12.5		10	16.7	16.11	17.29	14	19	0.2861	1.567	9.38%	1.77%
25		10	13.2	12.65	13.75	12	16	0.2694	1.476	11.18%	22.35%
50		10	12.8	11.7	13.9	6	16	0.5361	2.936	22.94%	24.71%
100		10	17.4	15.25	19.55	11	29	1.051	5.758	33.09%	-2.35%

# CETIS Summary Report

Report Date: 22 Nov-11 13:28 (p 2 of 2)

Test Code: 09-2776-3180/VCF1011052ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

### Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	18	15	15	21	17	24	16	21	9	14
6.25		21	19	19	21	17	14	12	18	17	15
12.5		19	17	17	15	17	14	17	16	16	19
25		13	16	14	12	12	12	15	14	12	12
50		16	14	12	10	14	13	6	13	15	15
100		20	22	29	17	15	18	20	11	11	11

**CETIS Analytical Report**

Report Date: 22 Nov-11 13:28 (p 1 of 2)  
 Test Code: 09-2776-3180/VCF1011052ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

**Aquatic Bioassay & Consulting Labs, Inc.**

<b>Analysis ID:</b> 06-6009-9671	<b>Endpoint:</b> Reproduction	<b>CETIS Version:</b> CETISv1.7.0
<b>Analyzed:</b> 22 Nov-11 13:28	<b>Analysis:</b> Nonparametric-Control vs Treatments	<b>Official Results:</b> Yes
<b>Batch ID:</b> 19-9699-8152	<b>Test Type:</b> Reproduction-Survival (7d)	<b>Analyst:</b>
<b>Start Date:</b> 05 Oct-11 15:30	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> Receiving Water
<b>Ending Date:</b> 12 Oct-11 16:00	<b>Species:</b> Ceriodaphnia dubia	<b>Brine:</b> Not Applicable
<b>Duration:</b> 7d 0h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b>
<b>Sample ID:</b> 13-1319-6553	<b>Code:</b> VCF1011052cc	<b>Client:</b> VCWPD
<b>Sample Date:</b> 05 Oct-11 06:30	<b>Material:</b> Sample Water	<b>Project:</b> 2010/11-1 (Wet)
<b>Receive Date:</b> 05 Oct-11 11:25	<b>Source:</b> Bioassay Report	
<b>Sample Age:</b> 9h (8 °C)	<b>Station:</b> MO-VEN	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	21.05%

**Steel Many-One Rank Test**

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	108	75	5	0.8923	Non-Significant Effect
		12.5	104.5	75	4	0.8218	Non-Significant Effect
		25*	71.5	75	3	0.0237	Significant Effect
		50*	72.5	75	3	0.0289	Significant Effect
		100	106	75	3	0.8549	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	17	15 - NL	Yes	Result Within Limits
PMSD	0.2105	0.13 - 0.47	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.469	3.2	0.0154	Outlier Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	227.9333	45.58667	5	3.731	0.0057	Significant Effect
Error	659.8	12.21852	54			
Total	887.7333	57.80518	59			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	22.62	15.09	0.0004	Unequal Variances
Variances	Mod Levene Equality of Variance	3.32	3.377	0.0110	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9544		0.0252	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1099	0.1331	0.0690	Normal Distribution
Distribution	D'Agostino Skewness	0.7309	2.576	0.4649	Normal Distribution
Distribution	D'Agostino Kurtosis	2.349	2.576	0.0188	Normal Distribution
Distribution	D'Agostino Omnibus	6.05	9.21	0.0486	Normal Distribution

**Reproduction Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	17	15.38	18.62	9	24	0.7927	4.269	25.11%	0.0%
6.25		10	17.3	16.18	18.42	12	21	0.547	2.946	17.03%	-1.77%
12.5		10	16.7	16.1	17.3	14	19	0.291	1.567	9.38%	1.77%
25		10	13.2	12.64	13.76	12	16	0.274	1.476	11.18%	22.35%
50		10	12.8	11.68	13.92	6	16	0.5453	2.936	22.94%	24.71%
100		10	17.4	15.21	19.59	11	29	1.069	5.758	33.09%	-2.35%

**CETIS Analytical Report**

Report Date: 22 Nov-11 13:28 (p 2 of 2)

Test Code: 09-2776-3180/VCF1011052ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 06-6009-9671

Endpoint: Reproduction

CETIS Version: CETISv1.7.0

Analyzed: 22 Nov-11 13:28

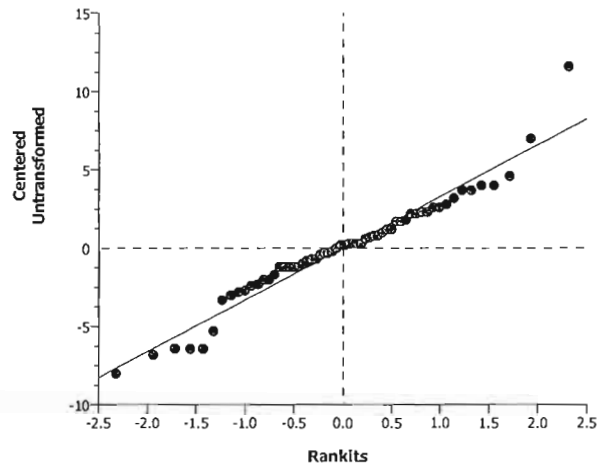
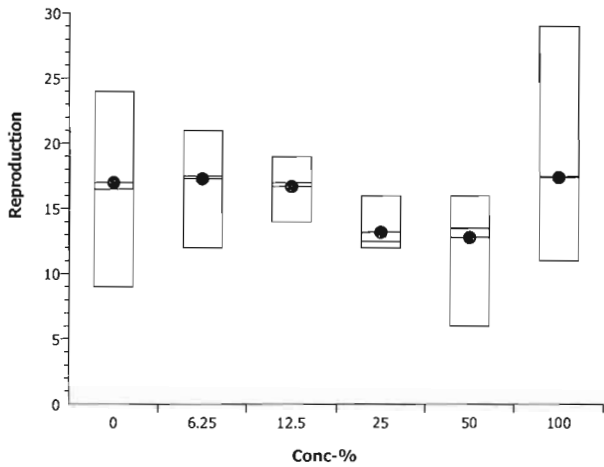
Analysis: Nonparametric-Control vs Treatments

Official Results: Yes

**Reproduction Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	18	15	15	21	17	24	16	21	9	14
6.25		21	19	19	21	17	14	12	18	17	15
12.5		19	17	17	15	17	14	17	16	16	19
25		13	16	14	12	12	12	15	14	12	12
50		16	14	12	10	14	13	6	13	15	15
100		20	22	29	17	15	18	20	11	11	11

**Graphics**





**CETIS Analytical Report**

Report Date: 22 Nov-11 13:28 (p 1 of 4)  
 Test Code: 09-2776-3180/VCF1011052ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 00-1256-0917	Endpoint: Reproduction	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 13:27	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 19-9699-8152	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:30	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 13-1319-6553	Code: VCF1011052cc	Client: VCWPD
Sample Date: 05 Oct-11 06:30	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 9h (8 °C)	Station: MO-VEN	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3735362	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	17	15 - NL	Yes	Result Within Limits

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	14.78	2.276	22.23	6.766	4.499	43.94
IC10	19.58	4.552	N/A	5.107	N/A	21.97
IC15	24.38	11.37	N/A	4.102	N/A	8.799
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

**Reproduction Summary**

Conc-%	Control Type	Count	Calculated Variate						
			Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	17	9	24	0.7794	4.269	25.11%	0.0%
6.25		10	17.3	12	21	0.5378	2.946	17.03%	-1.77%
12.5		10	16.7	14	19	0.2861	1.567	9.38%	1.77%
25		10	13.2	12	16	0.2694	1.476	11.18%	22.35%
50		10	12.8	6	16	0.5361	2.936	22.94%	24.71%
100		10	17.4	11	29	1.051	5.758	33.09%	-2.35%

**Reproduction Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	18	15	15	21	17	24	16	21	9	14
6.25		21	19	19	21	17	14	12	18	17	15
12.5		19	17	17	15	17	14	17	16	16	19
25		13	16	14	12	12	12	15	14	12	12
50		16	14	12	10	14	13	6	13	15	15
100		20	22	29	17	15	18	20	11	11	11

# CETIS Analytical Report

Report Date: 22 Nov-11 13:28 (p 2 of 4)  
Test Code: 09-2776-3180/CF1011052ccer

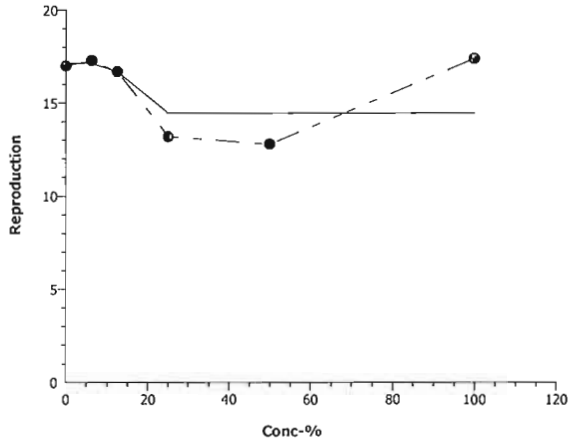
Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 00-1256-0917      Endpoint: Reproduction  
Analyzed: 22 Nov-11 13:27      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics





**CETIS Analytical Report**

Report Date: 22 Nov-11 13:28 (p 3 of 4)  
 Test Code: 09-2776-3180/CF1011052ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 13-9744-9524	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 13:27	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 19-9699-8152	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:30	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 13-1319-6553	Code: VCF1011052cc	Client: VCWPD
Sample Date: 05 Oct-11 06:30	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 9h (8 °C)	Station: MO-VEN	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3735362	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

**7d Survival Rate Summary**

**Calculated Variate(A/B)**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

# CETIS Analytical Report

Report Date: 22 Nov-11 13:28 (p 4 of 4)  
Test Code: 09-2776-3180/VCF1011052ccer

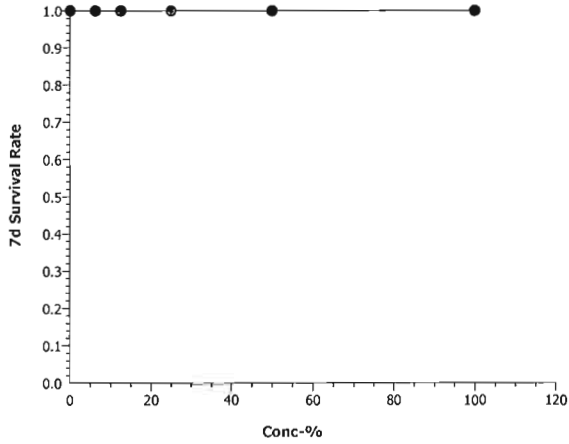
Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 13-9744-9524      Endpoint: 7d Survival Rate  
Analyzed: 22 Nov-11 13:27      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 13:28 (p 1 of 2)

Test Code: 09-2776-3180/VCF1011052ccer

Ceriodaphnia 7-d Survival and Reproduction Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	07-9907-7114	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0		
Analyzed:	22 Nov-11 13:27	Analysis:	STP 2x2 Contingency Tables	Official Results:	Yes		
Batch ID:	19-9699-8152	Test Type:	Reproduction-Survival (7d)	Analyst:			
Start Date:	05 Oct-11 15:30	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Receiving Water		
Ending Date:	12 Oct-11 16:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable		
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:			
Sample ID:	13-1319-6553	Code:	VCF1011052cc	Client:	VCWPD		
Sample Date:	05 Oct-11 06:30	Material:	Sample Water	Project:	2010/11-1 (Wet)		
Receive Date:	05 Oct-11 11:25	Source:	Bioassay Report				
Sample Age:	9h (8 °C)	Station:	MO-VEN				

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

**Fisher Exact/Bonferroni-Holm Test**

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Data Summary**

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

# CETIS Analytical Report

Report Date: 22 Nov-11 13:28 (p 2 of 2)  
Test Code: 09-2776-3180/VCF1011052ccer

Ceriodaphnia 7-d Survival and Reproduction Test

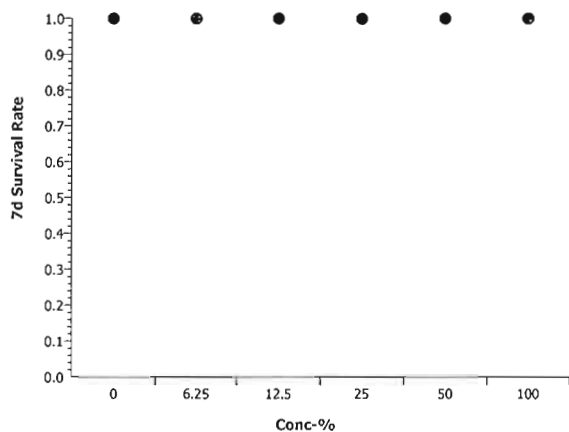
Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 07-9907-7114  
Analyzed: 22 Nov-11 13:27

Endpoint: 7d Survival Rate  
Analysis: STP 2x2 Contingency Tables

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



# CETIS Measurement Report

Report Date: 22 Nov-11 13:28 (p 1 of 2)  
 Test Code: 09-2776-3180/VCF1011052ccer

Ceriodaphnia 7-d Survival and Reproduction Test Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 19-9699-8152	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:30	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 13-1319-6553	Code: VCF1011052cc	Client: VCWPD
Sample Date: 05 Oct-11 06:30	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 11:25	Source: Bioassay Report	
Sample Age: 9h (8 °C)	Station: MO-VEN	

**Alkalinity (CaCO3)-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62	62	62	62	62	0	0	0.0%	0
100		8	45	45	45	45	45	0	0	0.0%	0
Overall		16	53.5			45	62				0 (0%)

**Conductivity-µmhos**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	329.4	325	333.8	311	349	2.162	12.97	3.94%	0
6.25		8	314.1	312.6	315.6	308	319	0.737	4.422	1.41%	0
12.5		8	298.5	296.6	300.4	289	306	0.9258	5.555	1.86%	0
25		8	326.4	324.6	328.2	318	335	0.8816	5.29	1.62%	0
50		8	202.5	194.8	210.2	190	258	3.773	22.64	11.18%	0
100		8	371.3	369.3	373.2	367	385	0.9749	5.849	1.58%	0
Overall		48	307			190	385				0 (0%)

**Dissolved Oxygen-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.875	7.691	8.059	6.8	8.6	0.09074	0.5445	6.91%	0
6.25		8	7.588	7.304	7.871	5.6	8.2	0.1396	0.8374	11.04%	0
12.5		8	7.575	7.309	7.841	5.7	8.1	0.1309	0.7851	10.36%	0
25		8	7.563	7.337	7.788	6.1	8.2	0.1112	0.6675	8.83%	0
50		8	7.55	7.315	7.785	5.9	8.1	0.1158	0.6949	9.2%	0
100		8	7.55	7.25	7.85	5.5	8.3	0.1477	0.8864	11.74%	0
Overall		48	7.617			5.5	8.6				0 (0%)

**Hardness (CaCO3)-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	88.5	88.19	88.81	88	90	0.1543	0.9258	1.05%	0
100		8	137	137	137	137	137	0	0	0.0%	0
Overall		16	112.8			88	137				0 (0%)

**pH-Units**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.963	7.937	7.988	7.8	8	0.0124	0.0744	0.93%	0
6.25		8	7.8	7.717	7.883	7.2	7.9	0.04082	0.2449	3.14%	0
12.5		8	7.738	7.663	7.812	7.2	7.9	0.03666	0.22	2.84%	0
25		8	16.19	8.01	24.36	7.3	76	4.028	24.17	149.3%	0
50		8	7.588	7.542	7.633	7.4	7.8	0.0226	0.1356	1.79%	0
100		8	7.363	7.27	7.455	6.9	7.7	0.04537	0.2722	3.7%	0
Overall		48	9.106			6.9	76				0 (0%)

CETIS Measurement Report

Report Date: 22 Nov-11 13:28 (p 2 of 2)
Test Code: 09-2776-3180/VCF1011052ccer

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

Table with 12 columns: Conc-%, Control Type, Count, Mean, 95% LCL, 95% UCL, Min, Max, Std Err, Std Dev, CV%, QA Count. Rows include concentrations from 0 to 100 and an overall summary row.

Alkalinity (CaCO3)-mg/L

Table with 10 columns: Conc-%, Control Type, 1, 2, 3, 4, 5, 6, 7, 8. Rows for 0 and 100 concentrations.

Conductivity-µmhos

Table with 10 columns: Conc-%, Control Type, 1, 2, 3, 4, 5, 6, 7, 8. Rows for concentrations from 0 to 100.

Dissolved Oxygen-mg/L

Table with 10 columns: Conc-%, Control Type, 1, 2, 3, 4, 5, 6, 7, 8. Rows for concentrations from 0 to 100.

Hardness (CaCO3)-mg/L

Table with 10 columns: Conc-%, Control Type, 1, 2, 3, 4, 5, 6, 7, 8. Rows for 0 and 100 concentrations.

pH-Units

Table with 10 columns: Conc-%, Control Type, 1, 2, 3, 4, 5, 6, 7, 8. Rows for concentrations from 0 to 100.

Temperature-°C

Table with 10 columns: Conc-%, Control Type, 1, 2, 3, 4, 5, 6, 7, 8. Rows for concentrations from 0 to 100.



November 23, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

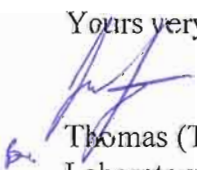
We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*" EPA-821-R-02-013. Results were as follows:

CLIENT: Ventura County Flood Control  
SAMPLE I.D.: MO-THO  
DATE RECEIVED: 10/5/2011  
ABC LAB. NO.: VCF1011.055

#### CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director



# CETIS Summary Report

Report Date: 22 Nov-11 14:01 (p 1 of 2)

Test Code: 17-3082-4551/VCF1011055ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

<b>Batch ID:</b> 14-3348-3230	<b>Test Type:</b> Reproduction-Survival (7d)	<b>Analyst:</b>
<b>Start Date:</b> 05 Oct-11 15:40	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> Receiving Water
<b>Ending Date:</b> 12 Oct-11 15:40	<b>Species:</b> Ceriodaphnia dubia	<b>Brine:</b> Not Applicable
<b>Duration:</b> 7d 0h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b>
<b>Sample ID:</b> 05-4827-9323	<b>Code:</b> VCF1011055cc	<b>Client:</b> VCWPD
<b>Sample Date:</b> 05 Oct-11 10:30	<b>Material:</b> Sample Water	<b>Project:</b> 2010/11-1 (Wet)
<b>Receive Date:</b> 05 Oct-11 12:25	<b>Source:</b> Bioassay Report	
<b>Sample Age:</b> 5h (6.5 °C)	<b>Station:</b> MO-THO	

### Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
13-7066-6849	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
02-1658-1279	Reproduction	100	>100	N/A	16.63%	1	Steel Many-One Rank Test

### Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
19-6788-7006	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
04-4479-9855	Reproduction	IC5	68.76	60.4	89.12	1.454	Linear Interpolation (ICPIN)
		IC10	87.52	73.81	N/A	1.143	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	

### Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
13-7066-6849	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
19-6788-7006	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
02-1658-1279	Reproduction	Control Resp	16.6	15 - NL	Yes	Result Within Limits
04-4479-9855	Reproduction	Control Resp	16.6	15 - NL	Yes	Result Within Limits
02-1658-1279	Reproduction	PMSD	0.1663	0.13 - 0.47	Yes	Result Within Limits

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

### Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	16.6	15.91	17.29	14	20	0.3355	1.838	11.07%	0.0%
6.25		10	15.5	14.84	16.16	12	18	0.3249	1.78	11.48%	6.63%
12.5		10	18.6	16.8	20.4	12	30	0.8786	4.812	25.87%	-12.05%
25		10	22.1	21.32	22.88	18	25	0.3796	2.079	9.41%	-33.13%
50		10	19.5	18.6	20.4	16	23	0.441	2.415	12.39%	-17.47%
100		10	16	15.27	16.73	14	19	0.3549	1.944	12.15%	3.61%



**CETIS Summary Report**

Report Date: 22 Nov-11 14:01 (p 2 of 2)

Test Code: 17-3082-4551/VCF1011055ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

**Reproduction Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	14	17	18	16	20	17	16	14	16	18
6.25		16	17	16	15	13	12	16	16	16	18
12.5		20	21	12	18	14	17	30	18	17	19
25		21	25	20	18	23	22	24	22	22	24
50		22	18	22	23	20	16	17	18	18	21
100		19	14	15	15	16	14	15	19	18	15

**CETIS Analytical Report**

Report Date: 22 Nov-11 14:01 (p 1 of 2)  
 Test Code: 17-3082-4551/VCF1011055cccr

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 02-1658-1279	Endpoint: Reproduction	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 14:01	Analysis: Nonparametric-Control vs Treatments	Official Results: Yes
Batch ID: 14-3348-3230	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:40	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 15:40	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 05-4827-9323	Code: VCF1011055cc	Client: VCWPD
Sample Date: 05 Oct-11 10:30	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 5h (6.5 °C)	Station: MO-THO	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	16.63%

**Steel Many-One Rank Test**

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	88.5	75	3	0.3061	Non-Significant Effect
		12.5	122.5	75	4	0.9948	Non-Significant Effect
		25	152.5	75	2	1.0000	Non-Significant Effect
		50	138	75	4	1.0000	Non-Significant Effect
		100	94.5	75	3	0.5100	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	16.6	15 - NL	Yes	Result Within Limits
PMSD	0.1663	0.13 - 0.47	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	4.419	3.2	<0.0001	Outlier Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	316.15	63.23	5	8.695	<0.0001	Significant Effect
Error	392.7	7.272222	54			
Total	708.85	70.50222	59			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	15.84	15.09	0.0073	Unequal Variances
Variances	Mod Levene Equality of Variance	1.281	3.377	0.2856	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9143		0.0005	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.1065	0.1331	0.0877	Normal Distribution
Distribution	D'Agostino Skewness	3.232	2.576	0.0012	Non-normal Distribution
Distribution	D'Agostino Kurtosis	3.819	2.576	0.0001	Non-normal Distribution
Distribution	D'Agostino Omnibus	25.03	9.21	<0.0001	Non-normal Distribution

**Reproduction Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	16.6	15.9	17.3	14	20	0.3413	1.838	11.07%	0.0%
6.25		10	15.5	14.82	16.18	12	18	0.3304	1.78	11.48%	6.63%
12.5		10	18.6	16.77	20.43	12	30	0.8936	4.812	25.87%	-12.05%
25		10	22.1	21.31	22.89	18	25	0.3861	2.079	9.41%	-33.13%
50		10	19.5	18.58	20.42	16	23	0.4485	2.415	12.39%	-17.47%
100		10	16	15.26	16.74	14	19	0.3609	1.944	12.15%	3.61%

# CETIS Analytical Report

Report Date: 22 Nov-11 14:01 (p 2 of 2)  
 Test Code: 17-3082-4551/CF1011055ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

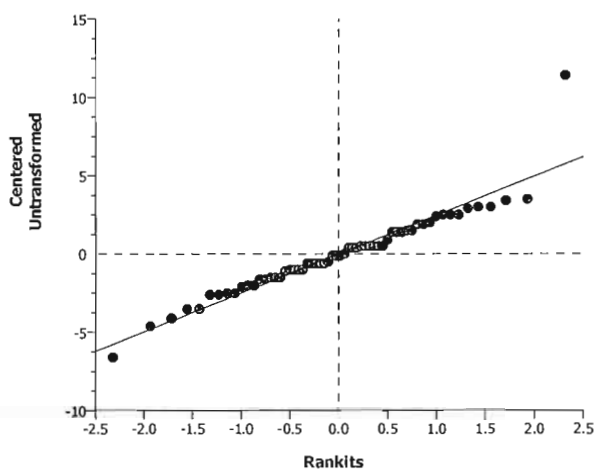
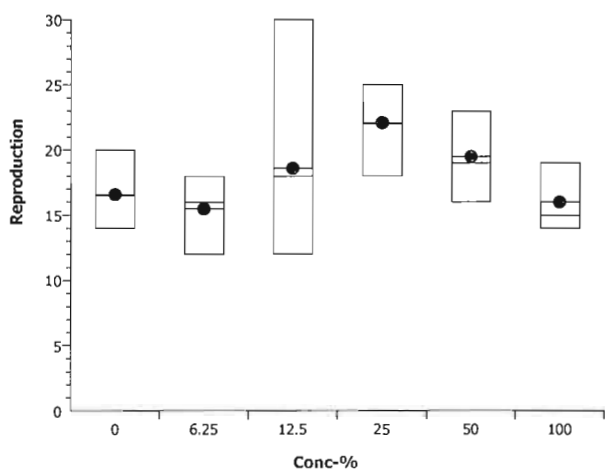
Analysis ID: 02-1658-1279      Endpoint: Reproduction  
 Analyzed: 22 Nov-11 14:01      Analysis: Nonparametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

### Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	14	17	18	16	20	17	16	14	16	18
6.25		16	17	16	15	13	12	16	16	16	18
12.5		20	21	12	18	14	17	30	18	17	19
25		21	25	20	18	23	22	24	22	22	24
50		22	18	22	23	20	16	17	18	18	21
100		19	14	15	15	16	14	15	19	18	15

### Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 14:01 (p 1 of 4)  
 Test Code: 17-3082-4551/VCF1011055ccer

Ceriodaphnia 7-d Survival and Reproduction Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	04-4479-9855	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0		
Analyzed:	22 Nov-11 14:01	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes		
Batch ID:	14-3348-3230	Test Type:	Reproduction-Survival (7d)	Analyst:			
Start Date:	05 Oct-11 15:40	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Receiving Water		
Ending Date:	12 Oct-11 15:40	Species:	Ceriodaphnia dubia	Brine:	Not Applicable		
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:			
Sample ID:	05-4827-9323	Code:	VCF1011055cc	Client:	VCWPD		
Sample Date:	05 Oct-11 10:30	Material:	Sample Water	Project:	2010/11-1 (Wet)		
Receive Date:	05 Oct-11 12:25	Source:	Bioassay Report				
Sample Age:	5h (6.5 °C)	Station:	MO-THO				

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	9619532	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	16.6	15 - NL	Yes	Result Within Limits

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	68.76	60.4	89.12	1.454	1.122	1.656
IC10	87.52	73.81	N/A	1.143	N/A	1.355
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	16.6	14	20	0.3355	1.838	11.07%	0.0%
6.25		10	15.5	12	18	0.3249	1.78	11.48%	6.63%
12.5		10	18.6	12	30	0.8786	4.812	25.87%	-12.05%
25		10	22.1	18	25	0.3796	2.079	9.41%	-33.13%
50		10	19.5	16	23	0.441	2.415	12.39%	-17.47%
100		10	16	14	19	0.3549	1.944	12.15%	3.61%

Reproduction Detail											
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	14	17	18	16	20	17	16	14	16	18
6.25		16	17	16	15	13	12	16	16	16	18
12.5		20	21	12	18	14	17	30	18	17	19
25		21	25	20	18	23	22	24	22	22	24
50		22	18	22	23	20	16	17	18	18	21
100		19	14	15	15	16	14	15	19	18	15

# CETIS Analytical Report

Report Date: 22 Nov-11 14:01 (p 2 of 4)  
Test Code: 17-3082-4551/VCF1011055ccer

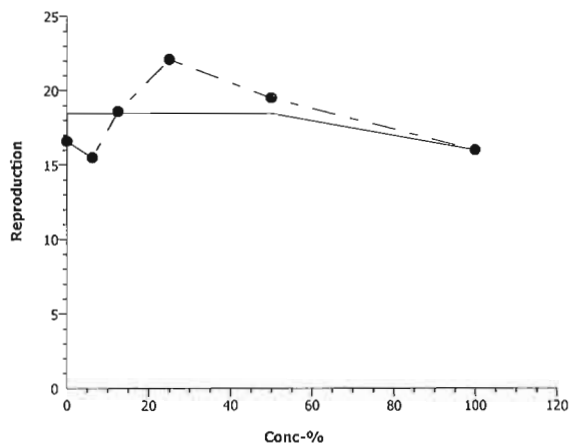
Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 04-4479-9855      Endpoint: Reproduction  
Analyzed: 22 Nov-11 14:01      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 14:01 (p 3 of 4)  
 Test Code: 17-3082-4551/VCF1011055ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 19-6788-7006	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 14:00	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 14-3348-3230	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:40	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 15:40	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 05-4827-9323	Code: VCF1011055cc	Client: VCWPD
Sample Date: 05 Oct-11 10:30	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 5h (6.5 °C)	Station: MO-THO	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	9619532	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	N/A	N/A
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

**7d Survival Rate Summary**

**Calculated Variate(A/B)**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

# CETIS Analytical Report

Report Date: 22 Nov-11 14:01 (p 4 of 4)  
Test Code: 17-3082-4551/VCF1011055ccer

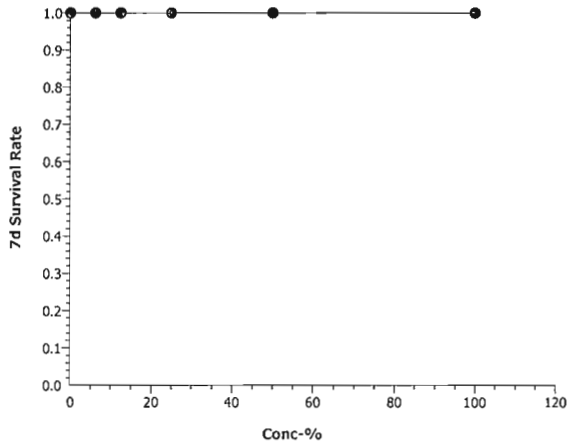
Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 19-6788-7006      Endpoint: 7d Survival Rate  
Analyzed: 22 Nov-11 14:00      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 14:01 (p 1 of 2)  
 Test Code: 17-3082-4551/VCF1011055ccer

Ceriodaphnia 7-d Survival and Reproduction Test Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 13-7066-6849	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 14:00	Analysis: STP 2x2 Contingency Tables	Official Results: Yes
Batch ID: 14-3348-3230	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:40	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 15:40	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 05-4827-9323	Code: VCF1011055cc	Client: VCWPD
Sample Date: 05 Oct-11 10:30	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 5h (6.5 °C)	Station: MO-THO	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

**Fisher Exact/Bonferroni-Holm Test**

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Data Summary**

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		10	0	10

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1



# CETIS Analytical Report

Report Date: 22 Nov-11 14:01 (p 2 of 2)

Test Code: 17-3082-4551/VCF1011055ccer

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 13-7066-6849

Endpoint: 7d Survival Rate

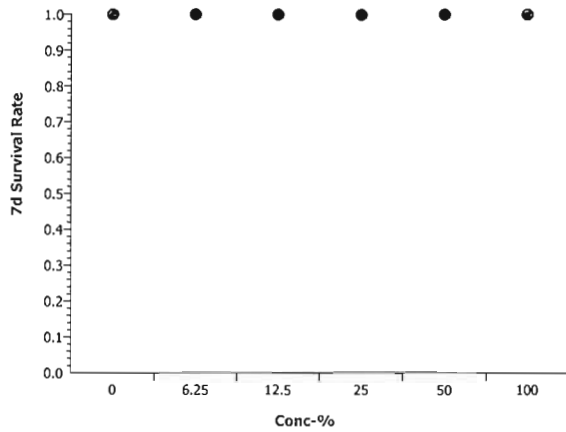
CETIS Version: CETISv1.7.0

Analyzed: 22 Nov-11 14:00

Analysis: STP 2x2 Contingency Tables

Official Results: Yes

## Graphics



# CETIS Measurement Report

Report Date: 22 Nov-11 14:01 (p 1 of 2)  
 Test Code: 17-3082-4551/VCF1011055ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 14-3348-3230	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:40	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 15:40	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 05-4827-9323	Code: VCF1011055cc	Client: VCWPD
Sample Date: 05 Oct-11 10:30	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 5h (6.5 °C)	Station: MO-THO	

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62	62	62	62	62	0	0	0.0%	0
100		8	447	447	447	447	447	0	0	0.0%	0
Overall		16	254.5			62	447				0 (0%)

### Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	329.4	325	333.8	311	349	2.162	12.97	3.94%	0
6.25		8	391.5	388.5	394.5	383	409	1.499	8.992	2.3%	0
12.5		8	518.9	513.4	524.4	500	542	2.704	16.23	3.13%	0
25		8	729.5	724.4	734.6	711	745	2.524	15.15	2.08%	0
50		8	1110	1107	1114	1100	1125	1.576	9.456	0.85%	0
100		8	1851	1846	1856	1836	1874	2.393	14.36	0.78%	0
Overall		48	821.8			311	1874				0 (0%)

### Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.875	7.691	8.059	6.8	8.6	0.09074	0.5445	6.91%	0
6.25		8	7.588	7.304	7.871	5.6	8.2	0.1396	0.8374	11.04%	0
12.5		8	7.575	7.309	7.841	5.7	8.1	0.1309	0.7851	10.36%	0
25		8	7.6	7.375	7.825	6.1	8.2	0.1109	0.6655	8.76%	0
50		8	7.55	7.315	7.785	5.9	8.1	0.1158	0.6949	9.2%	0
100		8	7.55	7.25	7.85	5.5	8.3	0.1477	0.8864	11.74%	0
Overall		48	7.623			5.5	8.6				0 (0%)

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	88.5	88.19	88.81	88	90	0.1543	0.9258	1.05%	0
100		8	550	550	550	550	550	0	0	0.0%	0
Overall		16	319.3			88	550				0 (0%)

### pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.963	7.937	7.988	7.8	8	0.0124	0.0744	0.93%	0
6.25		8	7.8	7.717	7.883	7.2	7.9	0.04082	0.2449	3.14%	0
12.5		8	7.738	7.663	7.812	7.2	7.9	0.03666	0.22	2.84%	0
25		8	16.19	8.01	24.36	7.3	76	4.028	24.17	149.3%	0
50		8	7.588	7.542	7.633	7.4	7.8	0.0226	0.1356	1.79%	0
100		8	7.363	7.27	7.455	6.9	7.7	0.04537	0.2722	3.7%	0
Overall		48	9.106			6.9	76				0 (0%)

**CETIS Measurement Report**

Report Date: 22 Nov-11 14:01 (p 2 of 2)  
 Test Code: 17-3082-4551/VCF1011055ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

**Aquatic Bioassay & Consulting Labs, Inc.**

**Temperature-°C**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.05	24.02	24.08	24	24.2	0.01542	0.09255	0.38%	0
6.25		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
12.5		8	24.09	24.04	24.13	24	24.4	0.0226	0.1356	0.56%	0
25		8	24.04	24.02	24.05	24	24.1	0.008611	0.05167	0.22%	0
50		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
100		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
Overall		48	24.04			24	24.4				0 (0%)

**Alkalinity (CaCO3)-mg/L**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	62	62	62	62	62	62	62	62
100		447	447	447	447	447	447	447	447

**Conductivity-µmhos**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	311	349	324	325	325	323	330	348
6.25		402	409	387	387	388	388	388	383
12.5		503	502	500	515	525	529	535	542
25		715	711	711	728	742	742	745	742
50		1116	1109	1102	1100	1100	1111	1120	1125
100		1858	1874	1836	1842	1870	1842	1845	1842

**Dissolved Oxygen-mg/L**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.2	8.6	8	8.1	8.1	7.7	7.5	6.8
6.25		7.9	8.2	7.9	8	8	7.7	7.4	5.6
12.5		8	8.1	7.8	7.9	7.9	7.8	7.4	5.7
25		7.7	8.2	8.1	7.9	7.8	7.7	7.3	6.1
50		7.7	8.1	7.8	7.9	7.8	7.8	7.4	5.9
100		8.3	8.1	7.8	7.9	7.8	7.8	7.2	5.5

**Hardness (CaCO3)-mg/L**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	88	88	88	88	88	88
100		550	550	550	550	550	550	550	550

**pH-Units**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	8	8	8	8	8	7.9	7.8
6.25		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.2
12.5		7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.2
25		7.6	7.7	7.6	7.8	7.6	7.7	7.8	7.3
50		7.4	7.5	7.5	7.7	7.7	7.5	7.6	7.8
100		6.9	7.1	7.4	7.6	7.5	7.5	7.7	7.2

**Temperature-°C**

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24	24	24	24.2	24	24	24.2
6.25		24	24	24	24.1	24.1	24	24	24
12.5		24	24	24	24.1	24	24.1	24.4	24.1
25		24	24.1	24	24	24	24	24.1	24.1
50		24	24.1	24	24	24	24.1	24	24
100		24	24.2	24	24	24	24	24	24.1



November 23, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*" EPA-821-R-02-013. Results were as follows:

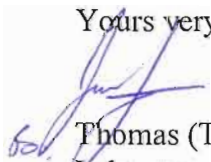
CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SIM
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.057

#### **CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY**

SURVIVAL	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

REPRODUCTION	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

# CETIS Summary Report

Report Date: 22 Nov-11 14:15 (p 1 of 2)

Test Code: 18-9350-9547/VCF1011057ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

<b>Batch ID:</b> 03-3426-1651	<b>Test Type:</b> Reproduction-Survival (7d)	<b>Analyst:</b>
<b>Start Date:</b> 05 Oct-11 15:50	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> Receiving Water
<b>Ending Date:</b> 12 Oct-11 16:00	<b>Species:</b> Ceriodaphnia dubia	<b>Brine:</b> Not Applicable
<b>Duration:</b> 7d 0h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b>
<b>Sample ID:</b> 19-3557-1706	<b>Code:</b> VCF1011057cc	<b>Client:</b> VCWPD
<b>Sample Date:</b> 05 Oct-11 09:15	<b>Material:</b> Sample Water	<b>Project:</b> 2010/11-1 (Wet)
<b>Receive Date:</b> 05 Oct-11 12:25	<b>Source:</b> Bioassay Report	
<b>Sample Age:</b> 7h (6.5 °C)	<b>Station:</b> MO-SIM	

### Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
12-1186-1385	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
13-7083-2296	Reproduction	100	>100	N/A	23.76%	1	Steel Many-One Rank Test

### Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
17-6934-7904	7d Survival Rate	EC5	50	17.19	N/A	2	Linear Interpolation (ICPIN)
		EC10	100	21.88	N/A	1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
17-3382-4768	Reproduction	IC5	1.647	1.016	N/A	60.73	Linear Interpolation (ICPIN)
		IC10	3.293	2.031	N/A	30.36	
		IC15	4.94	3.047	N/A	20.24	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	

### Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
12-1186-1385	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
17-6934-7904	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
13-7083-2296	Reproduction	Control Resp	17.6	15 - NL	Yes	Result Within Limits
17-3382-4768	Reproduction	Control Resp	17.6	15 - NL	Yes	Result Within Limits
13-7083-2296	Reproduction	PMSD	0.2376	0.13 - 0.47	Yes	Result Within Limits

### 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	0.9	0.7819	1	0	1	0.05774	0.3162	35.14%	10.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	0.9	0.7819	1	0	1	0.05774	0.3162	35.14%	10.0%

### Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	17.6	15.89	19.31	10	22	0.8353	4.575	26.0%	0.0%
6.25		10	12.5	11.94	13.06	9	14	0.2755	1.509	12.07%	28.98%
12.5		10	13.3	12.37	14.23	10	18	0.4558	2.497	18.77%	24.43%
25		10	13.9	11.98	15.82	0	19	0.9406	5.152	37.07%	21.02%
50		10	16.5	15.37	17.63	12	21	0.5528	3.028	18.35%	6.25%
100		10	15.1	12.89	17.31	0	21	1.08	5.915	39.17%	14.2%

**CETIS Summary Report**

Report Date: 22 Nov-11 14:15 (p 2 of 2)  
 Test Code: 18-9350-9547/VCF1011057ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	0	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	0	1	1

**Reproduction Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	21	18	21	22	22	20	12	12	10	18
6.25		14	13	13	12	14	12	12	9	14	12
12.5		18	14	15	10	16	12	13	13	11	11
25		17	16	19	15	14	14	0	14	14	16
50		16	21	19	20	18	13	14	17	15	12
100		21	19	16	11	16	16	18	0	18	16

**CETIS Analytical Report**

Report Date: 22 Nov-11 14:15 (p 1 of 2)  
 Test Code: 18-9350-9547/VCF1011057ccer

<b>Ceriodaphnia 7-d Survival and Reproduction Test</b>				<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>			
Analysis ID:	13-7083-2296	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0		
Analyzed:	22 Nov-11 14:15	Analysis:	Nonparametric-Control vs Treatments	Official Results:	Yes		
Batch ID:	03-3426-1651	Test Type:	Reproduction-Survival (7d)	Analyst:			
Start Date:	05 Oct-11 15:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Receiving Water		
Ending Date:	12 Oct-11 16:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable		
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:			
Sample ID:	19-3557-1706	Code:	VCF1011057cc	Client:	VCWPD		
Sample Date:	05 Oct-11 09:15	Material:	Sample Water	Project:	2010/11-1 (Wet)		
Receive Date:	05 Oct-11 12:25	Source:	Bioassay Report				
Sample Age:	7h (6.5 °C)	Station:	MO-SIM				

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	23.76%

**Steel Many-One Rank Test**

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	78	75	1	0.0771	Non-Significant Effect
		12.5	78.5	75	3	0.0836	Non-Significant Effect
		25	84	75	0	0.1834	Non-Significant Effect
		50	93.5	75	4	0.4745	Non-Significant Effect
		100	88	75	2	0.2908	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	17.6	15 - NL	Yes	Result Within Limits
PMSD	0.2376	0.13 - 0.47	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.863	3.2	0.0021	Outlier Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	191.6833	38.33667	5	2.297	0.0578	Non-Significant Effect
Error	901.3	16.69074	54			
Total	1092.983	55.0274	59			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	18.51	15.09	0.0024	Unequal Variances
Variances	Mod Levene Equality of Variance	0.8887	3.377	0.4952	Equal Variances
Distribution	Shapiro-Wilk Normality	0.855		<0.0001	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.1991	0.1331	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	4.592	2.576	<0.0001	Non-normal Distribution
Distribution	D'Agostino Kurtosis	3.609	2.576	0.0003	Non-normal Distribution
Distribution	D'Agostino Omnibus	34.11	9.21	<0.0001	Non-normal Distribution

**Reproduction Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	17.6	15.86	19.34	10	22	0.8496	4.575	26.0%	0.0%
6.25		10	12.5	11.93	13.07	9	14	0.2803	1.509	12.07%	28.98%
12.5		10	13.3	12.35	14.25	10	18	0.4636	2.497	18.77%	24.43%
25		10	13.9	11.94	15.86	0	19	0.9567	5.152	37.07%	21.02%
50		10	16.5	15.35	17.65	12	21	0.5622	3.028	18.35%	6.25%
100		10	15.1	12.85	17.35	0	21	1.098	5.915	39.17%	14.2%



# CETIS Analytical Report

Report Date: 22 Nov-11 14:15 (p 2 of 2)  
 Test Code: 18-9350-9547/VCF1011057ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

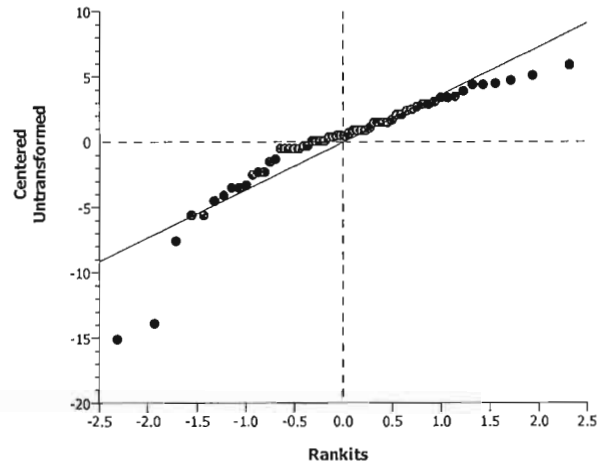
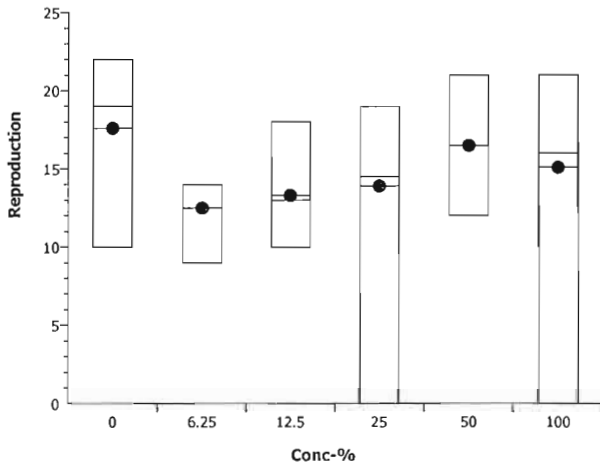
Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 13-7083-2296      Endpoint: Reproduction      CETIS Version: CETISv1.7.0  
 Analyzed: 22 Nov-11 14:15      Analysis: Nonparametric-Control vs Treatments      Official Results: Yes

### Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	21	18	21	22	22	20	12	12	10	18
6.25		14	13	13	12	14	12	12	9	14	12
12.5		18	14	15	10	16	12	13	13	11	11
25		17	16	19	15	14	14	0	14	14	16
50		16	21	19	20	18	13	14	17	15	12
100		21	19	16	11	16	16	18	0	18	16

### Graphics





**CETIS Analytical Report**

Report Date: 22 Nov-11 14:15 (p 1 of 4)  
 Test Code: 18-9350-9547/VCF1011057ccer

Ceriodaphnia 7-d Survival and Reproduction Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	17-3382-4768	Endpoint:	Reproduction	CETIS Version:	CETISv1.7.0		
Analyzed:	22 Nov-11 14:15	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes		
Batch ID:	03-3426-1651	Test Type:	Reproduction-Survival (7d)	Analyst:			
Start Date:	05 Oct-11 15:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Receiving Water		
Ending Date:	12 Oct-11 16:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable		
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:			
Sample ID:	19-3557-1706	Code:	VCF1011057cc	Client:	VCWPD		
Sample Date:	05 Oct-11 09:15	Material:	Sample Water	Project:	2010/11-1 (Wet)		
Receive Date:	05 Oct-11 12:25	Source:	Bioassay Report				
Sample Age:	7h (6.5 °C)	Station:	MO-SIM				

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	8714458	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	17.6	15 - NL	Yes	Result Within Limits

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	1.647	1.016	N/A	60.73	N/A	98.46
IC10	3.293	2.031	N/A	30.36	N/A	49.23
IC15	4.94	3.047	N/A	20.24	N/A	32.82
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Reproduction Summary			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	17.6	10	22	0.8353	4.575	26.0%	0.0%
6.25		10	12.5	9	14	0.2755	1.509	12.07%	28.98%
12.5		10	13.3	10	18	0.4558	2.497	18.77%	24.43%
25		10	13.9	0	19	0.9406	5.152	37.07%	21.02%
50		10	16.5	12	21	0.5528	3.028	18.35%	6.25%
100		10	15.1	0	21	1.08	5.915	39.17%	14.2%

Reproduction Detail											
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	21	18	21	22	22	20	12	12	10	18
6.25		14	13	13	12	14	12	12	9	14	12
12.5		18	14	15	10	16	12	13	13	11	11
25		17	16	19	15	14	14	0	14	14	16
50		16	21	19	20	18	13	14	17	15	12
100		21	19	16	11	16	16	18	0	18	16

# CETIS Analytical Report

Report Date: 22 Nov-11 14:15 (p 2 of 4)  
Test Code: 18-9350-9547/VCF1011057ccer

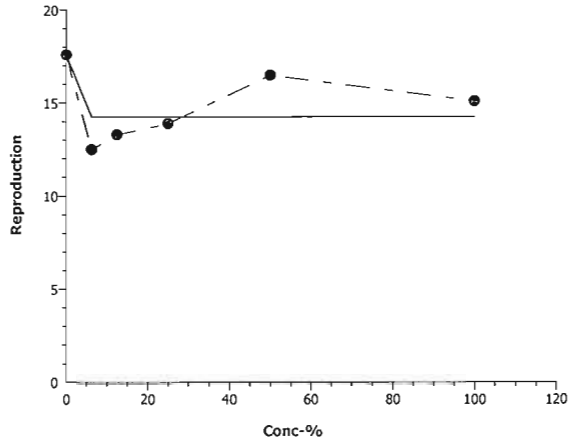
Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 17-3382-4768      Endpoint: Reproduction  
Analyzed: 22 Nov-11 14:15      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 14:15 (p 3 of 4)  
 Test Code: 18-9350-9547/VCF1011057ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 17-6934-7904	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 14:14	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 03-3426-1651	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:50	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 19-3557-1706	Code: VCF1011057cc	Client: VCWPD
Sample Date: 05 Oct-11 09:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 7h (6.5 °C)	Station: MO-SIM	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	8714458	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	50	17.19	N/A	2	N/A	5.818
EC10	100	21.88	N/A	1	N/A	4.571
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

**7d Survival Rate Summary**

**Calculated Variate(A/B)**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	0.9	0	1	0.05774	0.3162	35.14%	10.0%	9	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	0.9	0	1	0.05774	0.3162	35.14%	10.0%	9	10

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	0	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	0	1	1

# CETIS Analytical Report

Report Date: 22 Nov-11 14:15 (p 4 of 4)

Test Code: 18-9350-9547/VCF1011057ccer

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 17-6934-7904

Endpoint: 7d Survival Rate

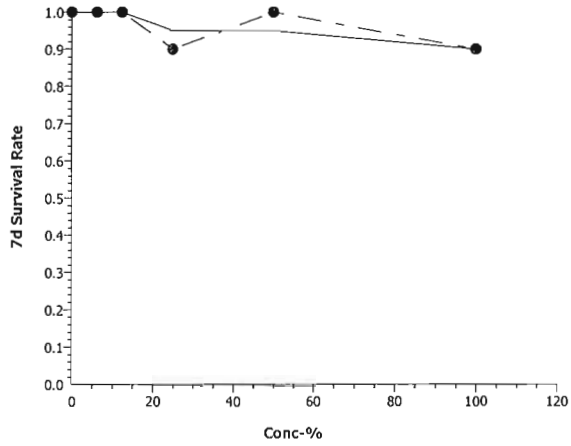
CETIS Version: CETISv1.7.0

Analyzed: 22 Nov-11 14:14

Analysis: Linear Interpolation (ICPIN)

Official Results: Yes

## Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 14:15 (p 1 of 2)  
 Test Code: 18-9350-9547/VCF1011057ccer

Ceriodaphnia 7-d Survival and Reproduction Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	12-1186-1385	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0		
Analyzed:	22 Nov-11 14:14	Analysis:	STP 2x2 Contingency Tables	Official Results:	Yes		
Batch ID:	03-3426-1651	Test Type:	Reproduction-Survival (7d)	Analyst:			
Start Date:	05 Oct-11 15:50	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Receiving Water		
Ending Date:	12 Oct-11 16:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable		
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:			
Sample ID:	19-3557-1706	Code:	VCF1011057cc	Client:	VCWPD		
Sample Date:	05 Oct-11 09:15	Material:	Sample Water	Project:	2010/11-1 (Wet)		
Receive Date:	05 Oct-11 12:25	Source:	Bioassay Report				
Sample Age:	7h (6.5 °C)	Station:	MO-SIM				

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

**Fisher Exact/Bonferroni-Holm Test**

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	0.5	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	0.5	1.0000	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Data Summary**

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		9	1	10
50		10	0	10
100		9	1	10

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	0	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	0	1	1

# CETIS Analytical Report

Report Date: 22 Nov-11 14:15 (p 2 of 2)

Test Code: 18-9350-9547/VCF1011057ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 12-1186-1385

Endpoint: 7d Survival Rate

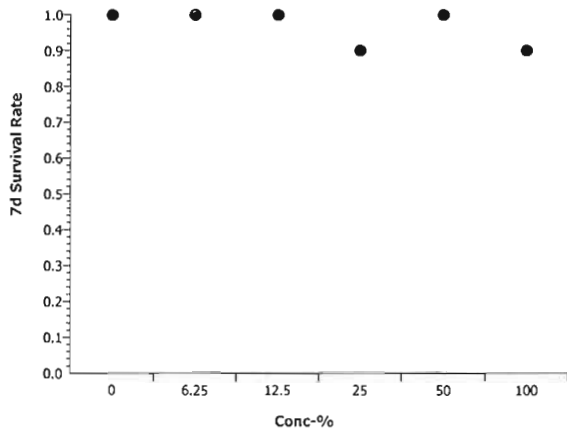
CETIS Version: CETISv1.7.0

Analyzed: 22 Nov-11 14:14

Analysis: STP 2x2 Contingency Tables

Official Results: Yes

### Graphics



# CETIS Measurement Report

Report Date: 22 Nov-11 14:15 (p 1 of 2)  
 Test Code: 18-9350-9547/VCF1011057ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 03-3426-1651	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:50	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 19-3557-1706	Code: VCF1011057cc	Client: VCWPD
Sample Date: 05 Oct-11 09:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 7h (6.5 °C)	Station: MO-SIM	

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62	62	62	62	62	0	0	0.0%	0
100		8	105	105	105	105	105	0	0	0.0%	0
Overall		16	83.5			62	105				0 (0%)

### Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	329.4	325	333.8	311	349	2.162	12.97	3.94%	0
6.25		8	374.9	373	376.8	369	385	0.932	5.592	1.49%	0
12.5		8	390.4	388.7	392	385	396	0.8162	4.897	1.25%	0
25		8	445.5	408.6	482.4	176	488	18.15	108.9	24.45%	0
50		8	639.3	635.4	643.1	620	655	1.877	11.26	1.76%	0
100		8	928.4	923.6	933.2	907	947	2.36	14.16	1.53%	0
Overall		48	518			176	947				0 (0%)

### Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.875	7.691	8.059	6.8	8.6	0.09074	0.5445	6.91%	0
6.25		8	7.588	7.304	7.871	5.6	8.2	0.1396	0.8374	11.04%	0
12.5		8	7.575	7.309	7.841	5.7	8.1	0.1309	0.7851	10.36%	0
25		8	7.563	7.337	7.788	6.1	8.2	0.1112	0.6675	8.83%	0
50		8	7.55	7.315	7.785	5.9	8.1	0.1158	0.6949	9.2%	0
100		8	7.55	7.25	7.85	5.5	8.3	0.1477	0.8864	11.74%	0
Overall		48	7.617			5.5	8.6				0 (0%)

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	88.5	88.19	88.81	88	90	0.1543	0.9258	1.05%	0
100		8	403	403	403	403	403	0	0	0.0%	0
Overall		16	245.8			88	403				0 (0%)

### pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.963	7.937	7.988	7.8	8	0.0124	0.0744	0.93%	0
6.25		8	7.8	7.717	7.883	7.2	7.9	0.04082	0.2449	3.14%	0
12.5		8	7.738	7.663	7.812	7.2	7.9	0.03666	0.22	2.84%	0
25		8	16.19	8.01	24.36	7.3	76	4.028	24.17	149.3%	0
50		8	7.588	7.542	7.633	7.4	7.8	0.0226	0.1356	1.79%	0
100		8	7.388	7.31	7.465	7.1	7.7	0.03825	0.2295	3.11%	0
Overall		48	9.11			7.1	76				0 (0%)

# CETIS Measurement Report

Report Date: 22 Nov-11 14:15 (p 2 of 2)  
 Test Code: 18-9350-9547/VCF1011057ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

### Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.05	24.02	24.08	24	24.2	0.01542	0.09255	0.38%	0
6.25		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
12.5		8	24.09	24.04	24.13	24	24.4	0.0226	0.1356	0.56%	0
25		8	24.04	24.02	24.05	24	24.1	0.008611	0.05167	0.22%	0
50		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
100		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
Overall		48	24.04			24	24.4				0 (0%)

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	62	62	62	62	62	62	62	62
100		105	105	105	105	105	105	105	105

### Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	311	349	324	325	325	323	330	348
6.25		377	373	369	375	370	370	380	385
12.5		394	396	394	395	385	385	385	389
25		481	481	176	485	485	488	484	484
50		633	629	620	642	645	648	642	655
100		907	925	922	928	945	947	938	915

### Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.2	8.6	8	8.1	8.1	7.7	7.5	6.8
6.25		7.9	8.2	7.9	8	8	7.7	7.4	5.6
12.5		8	8.1	7.8	7.9	7.9	7.8	7.4	5.7
25		7.4	8.2	8.1	7.9	7.8	7.7	7.3	6.1
50		7.7	8.1	7.8	7.9	7.8	7.8	7.4	5.9
100		8.3	8.1	7.8	7.9	7.8	7.8	7.2	5.5

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	88	88	88	88	88	88
100		403	403	403	403	403	403	403	403

### pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	8	8	8	8	8	7.9	7.8
6.25		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.2
12.5		7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.2
25		7.6	7.7	7.6	7.8	7.6	7.7	7.8	7.3
50		7.4	7.5	7.5	7.7	7.7	7.5	7.6	7.8
100		7.1	7.1	7.4	7.6	7.5	7.5	7.7	7.2

### Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24	24	24	24.2	24	24	24.2
6.25		24	24	24	24.1	24.1	24	24	24
12.5		24	24	24	24.1	24	24.1	24.4	24.1
25		24	24.1	24	24	24	24	24.1	24.1
50		24	24.1	24	24	24	24.1	24	24
100		24	24.2	24	24	24	24	24	24.1





November 23, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*" EPA-821-R-02-013. Results were as follows:

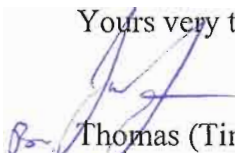
CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-FIL
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.058

#### **CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY**

SURVIVAL	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

REPRODUCTION	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,



Thomas (Tim) Mikel  
Laboratory Director

**CETIS Summary Report**

Report Date: 22 Nov-11 14:24 (p 1 of 2)  
 Test Code: 15-2232-3118/VCF1011058ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

**Aquatic Bioassay & Consulting Labs, Inc.**

<b>Batch ID:</b> 21-0675-6903	<b>Test Type:</b> Reproduction-Survival (7d)	<b>Analyst:</b>
<b>Start Date:</b> 05 Oct-11 16:00	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> Receiving Water
<b>Ending Date:</b> 12 Oct-11 16:00	<b>Species:</b> Ceriodaphnia dubia	<b>Brine:</b> Not Applicable
<b>Duration:</b> 7d 0h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b>
<b>Sample ID:</b> 17-7667-5591	<b>Code:</b> VCF1011058cc	<b>Client:</b> VCWPD
<b>Sample Date:</b> 05 Oct-11 07:15	<b>Material:</b> Sample Water	<b>Project:</b> 2010/11-1 (Wet)
<b>Receive Date:</b> 05 Oct-11 12:25	<b>Source:</b> Bioassay Report	
<b>Sample Age:</b> 9h (6.8 °C)	<b>Station:</b> MO-FIL	

**Comparison Summary**

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
11-8147-6379	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
03-0826-2763	Reproduction	100	>100	N/A	25.14%	1	Steel Many-One Rank Test

**Point Estimate Summary**

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
16-4947-5100	7d Survival Rate	EC5	66.67	4.167	N/A	1.5	Linear Interpolation (ICPIN)
		EC10	100	60	N/A	1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
21-0142-0457	Reproduction	IC5	4.716	2.112	N/A	21.2	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	

**Test Acceptability**

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
11-8147-6379	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
16-4947-5100	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
03-0826-2763	Reproduction	Control Resp	16.6	15 - NL	Yes	Result Within Limits
21-0142-0457	Reproduction	Control Resp	16.6	15 - NL	Yes	Result Within Limits
03-0826-2763	Reproduction	PMSD	0.2514	0.13 - 0.47	Yes	Result Within Limits

**7d Survival Rate Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	0.9	0.7819	1	0	1	0.05774	0.3162	35.14%	10.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	0.9	0.7819	1	0	1	0.05774	0.3162	35.14%	10.0%

**Reproduction Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	16.6	16.07	17.13	15	19	0.2611	1.43	8.61%	0.0%
6.25		10	13.7	11.78	15.62	0	19	0.9391	5.143	37.54%	17.47%
12.5		10	16.3	15.71	16.89	13	19	0.2861	1.567	9.61%	1.81%
25		10	14.4	13.5	15.3	10	17	0.4405	2.413	16.76%	13.25%
50		10	15.9	14.21	17.59	9	22	0.8275	4.533	28.51%	4.22%
100		10	17.2	14.77	19.63	4	27	1.189	6.512	37.86%	-3.61%

# CETIS Summary Report

Report Date: 22 Nov-11 14:24 (p 2 of 2)  
Test Code: 15-2232-3118/VCF1011058ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

### 7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	0	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	0	1

### Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	17	18	15	19	15	15	17	16	16	18
6.25		19	13	0	13	17	15	15	15	16	14
12.5		16	19	16	17	17	17	15	17	16	13
25		17	17	16	15	15	14	10	11	13	16
50		22	22	19	17	18	15	14	13	10	9
100		26	16	19	27	15	18	14	14	4	19

**CETIS Analytical Report**

Report Date: 22 Nov-11 14:24 (p 1 of 2)  
 Test Code: 15-2232-3118/CF1011058ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

<b>Analysis ID:</b> 03-0826-2763	<b>Endpoint:</b> Reproduction	<b>CETIS Version:</b> CETISv1.7.0
<b>Analyzed:</b> 22 Nov-11 14:24	<b>Analysis:</b> Nonparametric-Control vs Treatments	<b>Official Results:</b> Yes
<b>Batch ID:</b> 21-0675-6903	<b>Test Type:</b> Reproduction-Survival (7d)	<b>Analyst:</b>
<b>Start Date:</b> 05 Oct-11 16:00	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> Receiving Water
<b>Ending Date:</b> 12 Oct-11 16:00	<b>Species:</b> Ceriodaphnia dubia	<b>Brine:</b> Not Applicable
<b>Duration:</b> 7d 0h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b>
<b>Sample ID:</b> 17-7667-5591	<b>Code:</b> VCF1011058cc	<b>Client:</b> VCWPD
<b>Sample Date:</b> 05 Oct-11 07:15	<b>Material:</b> Sample Water	<b>Project:</b> 2010/11-1 (Wet)
<b>Receive Date:</b> 05 Oct-11 12:25	<b>Source:</b> Bioassay Report	
<b>Sample Age:</b> 9h (6.8 °C)	<b>Station:</b> MO-FIL	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	25.14%

**Steel Many-One Rank Test**

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	79	75	4	0.0904	Non-Significant Effect
		12.5	102	75	4	0.7570	Non-Significant Effect
		25	78	75	3	0.0771	Non-Significant Effect
		50	100	75	4	0.6974	Non-Significant Effect
		100	107.5	75	4	0.8837	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	16.6	15 - NL	Yes	Result Within Limits
PMSD	0.2514	0.13 - 0.47	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.513	3.2	0.0125	Outlier Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	91.48333	18.29667	5	1.101	0.3708	Non-Significant Effect
Error	897.5	16.62037	54			
Total	988.9833	34.91704	59			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	29.71	15.09	<0.0001	Unequal Variances
Variances	Mod Levene Equality of Variance	2.469	3.377	0.0437	Equal Variances
Distribution	Shapiro-Wilk Normality	0.893		<0.0001	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.1408	0.1331	0.0047	Non-normal Distribution
Distribution	D'Agostino Skewness	2.905	2.576	0.0037	Non-normal Distribution
Distribution	D'Agostino Kurtosis	3.329	2.576	0.0009	Non-normal Distribution
Distribution	D'Agostino Omnibus	19.52	9.21	<0.0001	Non-normal Distribution

**Reproduction Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	16.6	16.06	17.14	15	19	0.2655	1.43	8.61%	0.0%
6.25		10	13.7	11.74	15.66	0	19	0.9551	5.143	37.54%	17.47%
12.5		10	16.3	15.7	16.9	13	19	0.291	1.567	9.61%	1.81%
25		10	14.4	13.48	15.32	10	17	0.4481	2.413	16.76%	13.25%
50		10	15.9	14.18	17.62	9	22	0.8417	4.533	28.51%	4.22%
100		10	17.2	14.72	19.68	4	27	1.209	6.512	37.86%	-3.61%

# CETIS Analytical Report

Report Date: 22 Nov-11 14:24 (p 2 of 2)  
 Test Code: 15-2232-3118/CF1011058ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

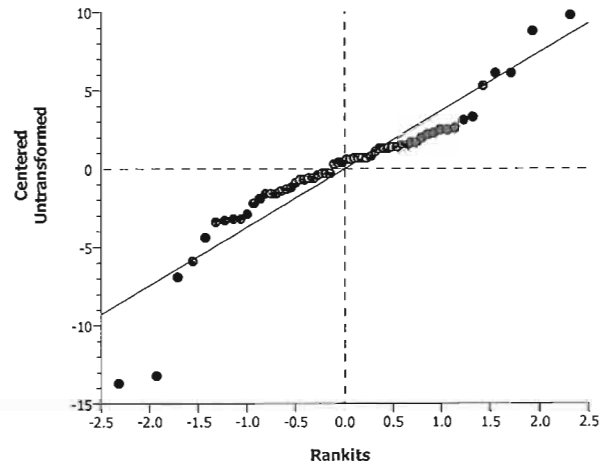
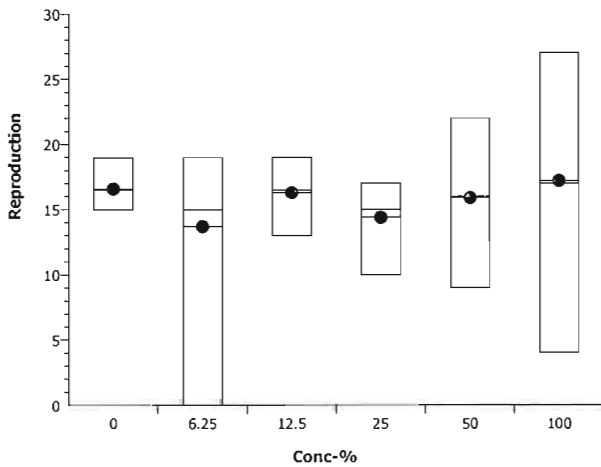
Analysis ID: 03-0826-2763      Endpoint: Reproduction  
 Analyzed: 22 Nov-11 14:24      Analysis: Nonparametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

### Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	17	18	15	19	15	15	17	16	16	18
6.25		19	13	0	13	17	15	15	15	16	14
12.5		16	19	16	17	17	17	15	17	16	13
25		17	17	16	15	15	14	10	11	13	16
50		22	22	19	17	18	15	14	13	10	9
100		26	16	19	27	15	18	14	14	4	19

### Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 14:24 (p 1 of 4)  
 Test Code: 15-2232-3118/VCF1011058ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 21-0142-0457	Endpoint: Reproduction	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 14:24	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 21-0675-6903	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 17-7667-5591	Code: VCF1011058cc	Client: VCWPD
Sample Date: 05 Oct-11 07:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 9h (6.8 °C)	Station: MO-FIL	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	562369	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	16.6	15 - NL	Yes	Result Within Limits

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	4.716	2.112	N/A	21.2	N/A	47.36
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

**Reproduction Summary**

Conc-%	Control Type	Count	Calculated Variate						
			Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	16.6	15	19	0.2611	1.43	8.61%	0.0%
6.25		10	13.7	0	19	0.9391	5.143	37.54%	17.47%
12.5		10	16.3	13	19	0.2861	1.567	9.61%	1.81%
25		10	14.4	10	17	0.4405	2.413	16.76%	13.25%
50		10	15.9	9	22	0.8275	4.533	28.51%	4.22%
100		10	17.2	4	27	1.189	6.512	37.86%	-3.61%

**Reproduction Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	17	18	15	19	15	15	17	16	16	18
6.25		19	13	0	13	17	15	15	15	16	14
12.5		16	19	16	17	17	17	15	17	16	13
25		17	17	16	15	15	14	10	11	13	16
50		22	22	19	17	18	15	14	13	10	9
100		26	16	19	27	15	18	14	14	4	19

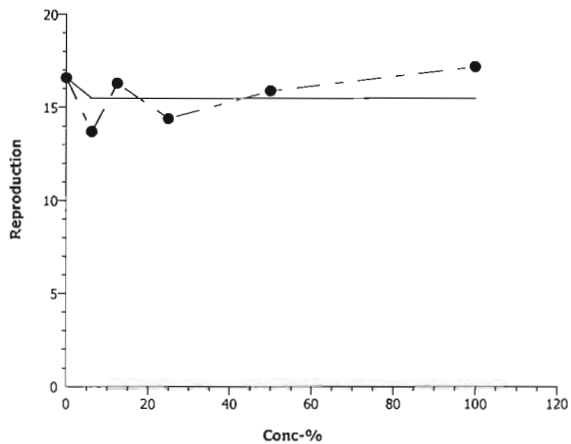
Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 21-0142-0457      Endpoint: Reproduction  
Analyzed: 22 Nov-11 14:24      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

Graphics





**CETIS Analytical Report**

Report Date: 22 Nov-11 14:24 (p 3 of 4)  
 Test Code: 15-2232-3118/VCF1011058ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 16-4947-5100	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 14:24	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 21-0675-6903	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 17-7667-5591	Code: VCF1011058cc	Client: VCWPD
Sample Date: 05 Oct-11 07:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 9h (6.8 °C)	Station: MO-FIL	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	562369	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	66.67	4.167	N/A	1.5	N/A	24
EC10	100	60	N/A	1	N/A	1.667
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

**7d Survival Rate Summary**

Conc-%	Control Type	Count	Calculated Variate(A/B)								
			Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	0.9	0	1	0.05774	0.3162	35.14%	10.0%	9	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	0.9	0	1	0.05774	0.3162	35.14%	10.0%	9	10

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	0	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	0	1



# CETIS Analytical Report

Report Date: 22 Nov-11 14:24 (p 4 of 4)  
Test Code: 15-2232-3118/VCF1011058ccer

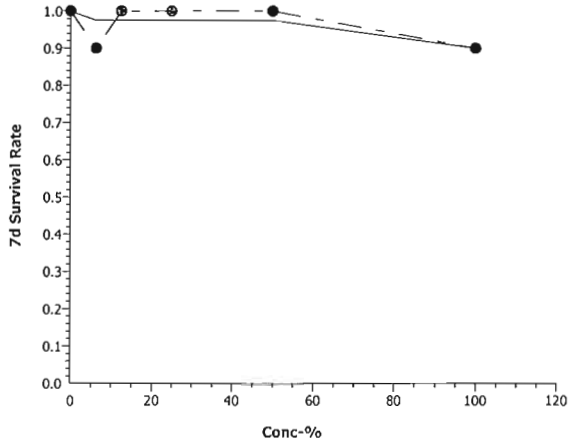
## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 16-4947-5100      Endpoint: 7d Survival Rate  
Analyzed: 22 Nov-11 14:24      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

### Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 14:24 (p 1 of 2)  
 Test Code: 15-2232-3118/VCF1011058ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 11-8147-6379	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 14:23	Analysis: STP 2x2 Contingency Tables	Official Results: Yes
Batch ID: 21-0675-6903	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 17-7667-5591	Code: VCF1011058cc	Client: VCWPD
Sample Date: 05 Oct-11 07:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 9h (6.8 °C)	Station: MO-FIL	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

**Fisher Exact/Bonferroni-Holm Test**

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	0.5	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	1	1.0000	Non-Significant Effect
		100	0.5	1.0000	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Data Summary**

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		9	1	10
12.5		10	0	10
25		10	0	10
50		10	0	10
100		9	1	10

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	0	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	0	1

# CETIS Analytical Report

Report Date: 22 Nov-11 14:24 (p 2 of 2)  
Test Code: 15-2232-3118/VCF1011058ccer

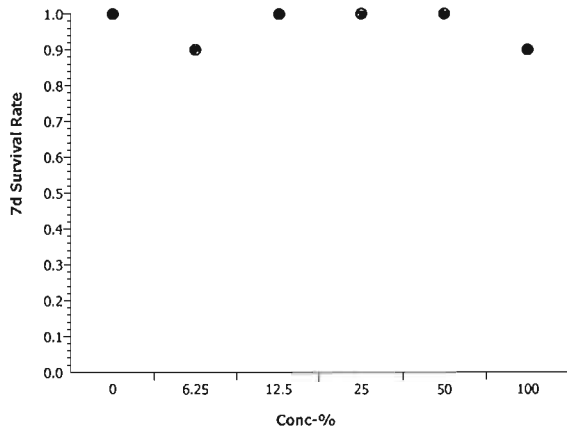
## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 11-8147-6379      Endpoint: 7d Survival Rate  
Analyzed: 22 Nov-11 14:23      Analysis: STP 2x2 Contingency Tables

CETIS Version: CETISv1.7.0  
Official Results: Yes

### Graphics



# CETIS Measurement Report

Report Date: 22 Nov-11 14:24 (p 1 of 2)

Test Code: 15-2232-3118/VCF1011058ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	21-0675-6903	Test Type:	Reproduction-Survival (7d)	Analyst:	
Start Date:	05 Oct-11 16:00	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Receiving Water
Ending Date:	12 Oct-11 16:00	Species:	Ceriodaphnia dubia	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	17-7667-5591	Code:	VCF1011058cc	Client:	VCWPD
Sample Date:	05 Oct-11 07:15	Material:	Sample Water	Project:	2010/11-1 (Wet)
Receive Date:	05 Oct-11 12:25	Source:	Bioassay Report		
Sample Age:	9h (6.8 °C)	Station:	MO-FIL		

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62	62	62	62	62	0	0	0.0%	0
100		8	210	210	210	210	210	0	0	0.0%	0
Overall		16	136			62	210				0 (0%)

### Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	329.4	325	333.8	311	349	2.162	12.97	3.94%	0
6.25		8	367.9	366.4	369.3	359	372	0.7096	4.257	1.16%	0
12.5		8	461	444.2	477.8	434	583	8.298	49.79	10.8%	0
25		8	572.3	568.7	575.8	560	585	1.741	10.44	1.83%	0
50		8	821	814.8	827.2	800	845	3.071	18.42	2.24%	0
100		8	1247	1245	1249	1233	1255	1.042	6.255	0.5%	0
Overall		48	633			311	1255				0 (0%)

### Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.875	7.691	8.059	6.8	8.6	0.09074	0.5445	6.91%	0
6.25		8	7.588	7.304	7.871	5.6	8.2	0.1396	0.8374	11.04%	0
12.5		8	7.575	7.309	7.841	5.7	8.1	0.1309	0.7851	10.36%	0
25		8	7.563	7.337	7.788	6.1	8.2	0.1112	0.6675	8.83%	0
50		8	7.55	7.315	7.785	5.9	8.1	0.1158	0.6949	9.2%	0
100		8	7.55	7.25	7.85	5.5	8.3	0.1477	0.8864	11.74%	0
Overall		48	7.617			5.5	8.6				0 (0%)

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	88.5	88.19	88.81	88	90	0.1543	0.9258	1.05%	0
100		8	541	541	541	541	541	0	0	0.0%	0
Overall		16	314.8			88	541				0 (0%)

### pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.963	7.937	7.988	7.8	8	0.0124	0.0744	0.93%	0
6.25		8	7.8	7.717	7.883	7.2	7.9	0.04082	0.2449	3.14%	0
12.5		8	7.738	7.663	7.812	7.2	7.9	0.03666	0.22	2.84%	0
25		8	16.19	8.01	24.36	7.3	76	4.028	24.17	149.3%	0
50		8	7.588	7.542	7.633	7.4	7.8	0.0226	0.1356	1.79%	0
100		8	7.363	7.27	7.455	6.9	7.7	0.04537	0.2722	3.7%	0
Overall		48	9.106			6.9	76				0 (0%)

# CETIS Measurement Report

Report Date: 22 Nov-11 14:24 (p 2 of 2)  
 Test Code: 15-2232-3118/VCF1011058ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

### Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.05	24.02	24.08	24	24.2	0.01542	0.09255	0.38%	0
6.25		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
12.5		8	24.09	24.04	24.13	24	24.4	0.0226	0.1356	0.56%	0
25		8	24.04	24.02	24.05	24	24.1	0.008611	0.05167	0.22%	0
50		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
100		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
Overall		48	24.04			24	24.4				0 (0%)

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	62	62	62	62	62	62	62	62
100		210	210	210	210	210	210	210	210

### Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	311	349	324	325	325	323	330	348
6.25		372	359	372	370	369	368	365	368
12.5		440	439	434	440	445	452	455	583
25		562	564	560	566	575	585	583	583
50		804	803	800	813	825	836	842	845
100		1255	1250	1233	1245	1248	1247	1248	1247

### Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.2	8.6	8	8.1	8.1	7.7	7.5	6.8
6.25		7.9	8.2	7.9	8	8	7.7	7.4	5.6
12.5		8	8.1	7.8	7.9	7.9	7.8	7.4	5.7
25		7.4	8.2	8.1	7.9	7.8	7.7	7.3	6.1
50		7.7	8.1	7.8	7.9	7.8	7.8	7.4	5.9
100		8.3	8.1	7.8	7.9	7.8	7.8	7.2	5.5

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	88	88	88	88	88	88
100		541	541	541	541	541	541	541	541

### pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	8	8	8	8	8	7.9	7.8
6.25		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.2
12.5		7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.2
25		7.6	7.7	7.6	7.8	7.6	7.7	7.8	7.3
50		7.4	7.5	7.5	7.7	7.7	7.5	7.6	7.8
100		6.9	7.1	7.4	7.6	7.5	7.5	7.7	7.2

### Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24	24	24	24.2	24	24	24.2
6.25		24	24	24	24.1	24.1	24	24	24
12.5		24	24	24	24.1	24	24.1	24.4	24.1
25		24	24.1	24	24	24	24	24.1	24.1
50		24	24.1	24	24	24	24.1	24	24
100		24	24.2	24	24	24	24	24	24.1



November 23, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

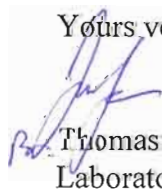
We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*" EPA-821-R-02-013. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-HUE
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.064

#### CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,



Thomas (Tim) Mikel  
Laboratory Director

# CETIS Summary Report

Report Date: 22 Nov-11 14:58 (p 1 of 2)  
 Test Code: 10-7017-6461/VCF1011064cccr

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 15-1933-1631	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:15	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d	Source: Aquatic Biosystems, CO	Age:
Sample ID: 07-9599-8437	Code: VCF1011064cc	Client: VCWPD
Sample Date: 05 Oct-11 09:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 7h (6.5 °C)	Station: MO-HUE	

## Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
00-8264-7601	7d Survival Rate	100	>100	N/A	N/A	1	Fisher Exact/Bonferroni-Holm Test
11-0942-3123	Reproduction	100	>100	N/A	17.63%	1	Steel Many-One Rank Test

## Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method	
11-4233-1583	7d Survival Rate	EC5	100	33.33	N/A	1	Linear Interpolation (ICPIN)	
		EC10	>100	N/A	N/A	<1		
		EC15	>100	N/A	N/A	<1		
		EC20	>100	N/A	N/A	<1		
		EC25	>100	N/A	N/A	<1		
		EC40	>100	N/A	N/A	<1		
12-2694-3167	Reproduction	IC5	13.49	2.597	17.03	7.412	Linear Interpolation (ICPIN)	
		IC10	17.5	5.194	23.08	5.714		
		IC15	21.51	12.22	N/A	N/A		4.649
		IC20	>100	N/A	N/A	<1		
		IC25	>100	N/A	N/A	<1		
		IC40	>100	N/A	N/A	<1		

## Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
00-8264-7601	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
11-4233-1583	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Result Within Limits
11-0942-3123	Reproduction	Control Resp	18.6	15 - NL	Yes	Result Within Limits
12-2694-3167	Reproduction	Control Resp	18.6	15 - NL	Yes	Result Within Limits
11-0942-3123	Reproduction	PMSD	0.1763	0.13 - 0.47	Yes	Result Within Limits

## 7d Survival Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	0.9	0.7819	1	0	1	0.05774	0.3162	35.14%	10.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

## Reproduction Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	18.6	17.62	19.58	14	22	0.4807	2.633	14.16%	0.0%
6.25		10	18.1	16.87	19.33	13	23	0.5991	3.281	18.13%	2.69%
12.5		10	17.9	16.82	18.98	13	22	0.5267	2.885	16.12%	3.76%
25		10	13.8	13	14.6	11	18	0.3925	2.15	15.58%	25.81%
50		10	13.8	11.91	15.69	0	19	0.9262	5.073	36.76%	25.81%
100		10	17.4	16.55	18.25	14	22	0.4146	2.271	13.05%	6.45%

**CETIS Summary Report**

Report Date: 22 Nov-11 14:58 (p 2 of 2)  
 Test Code: 10-7017-6461/VCF1011064ccer

Ceriodaphnia 7-d Survival and Reproduction Test Aquatic Bioassay & Consulting Labs, Inc.

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	0	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

**Reproduction Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	19	14	16	18	17	17	21	21	22	21
6.25		21	13	17	23	19	18	18	16	22	14
12.5		20	17	19	21	19	13	17	22	17	14
25		14	13	18	13	13	17	13	12	11	14
50		19	0	14	14	16	14	15	15	15	16
100		18	20	17	17	16	14	16	16	18	22



**CETIS Analytical Report**

Report Date: 22 Nov-11 14:58 (p 1 of 2)  
 Test Code: 10-7017-6461/VCF1011064ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 11-0942-3123	Endpoint: Reproduction	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 14:58	Analysis: Nonparametric-Control vs Treatments	Official Results: Yes
Batch ID: 15-1933-1631	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:15	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d	Source: Aquatic Biosystems, CO	Age:
Sample ID: 07-9599-8437	Code: VCF1011064cc	Client: VCWPD
Sample Date: 05 Oct-11 09:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 7h (6.5 °C)	Station: MO-HUE	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	17.63%

**Steel Many-One Rank Test**

Control	vs Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control	6.25	101.5	75	7	0.7427	Non-Significant Effect
	12.5	98.5	75	5	0.6489	Non-Significant Effect
	25*	63.5	75	3	0.0039	Significant Effect
	50*	68	75	3	0.0113	Significant Effect
	100	90.5	75	5	0.3707	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	18.6	15 - NL	Yes	Result Within Limits
PMSD	0.1763	0.13 - 0.47	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	4.504	3.2	<0.0001	Outlier Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	242.6	48.52	5	4.731	0.0012	Significant Effect
Error	553.8	10.25556	54			
Total	796.4	58.77555	59			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	9.632	15.09	0.0864	Equal Variances
Variances	Mod Levene Equality of Variance	0.3601	3.377	0.8735	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9018		0.0002	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.1174	0.1331	0.0387	Normal Distribution
Distribution	D'Agostino Skewness	4.011	2.576	<0.0001	Non-normal Distribution
Distribution	D'Agostino Kurtosis	3.854	2.576	0.0001	Non-normal Distribution
Distribution	D'Agostino Omnibus	30.94	9.21	<0.0001	Non-normal Distribution

**Reproduction Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	18.6	17.6	19.6	14	22	0.489	2.633	14.16%	0.0%
6.25		10	18.1	16.85	19.35	13	23	0.6093	3.281	18.13%	2.69%
12.5		10	17.9	16.8	19	13	22	0.5357	2.885	16.12%	3.76%
25		10	13.8	12.98	14.62	11	18	0.3992	2.15	15.58%	25.81%
50		10	13.8	11.87	15.73	0	19	0.942	5.073	36.76%	25.81%
100		10	17.4	16.54	18.26	14	22	0.4216	2.271	13.05%	6.45%

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

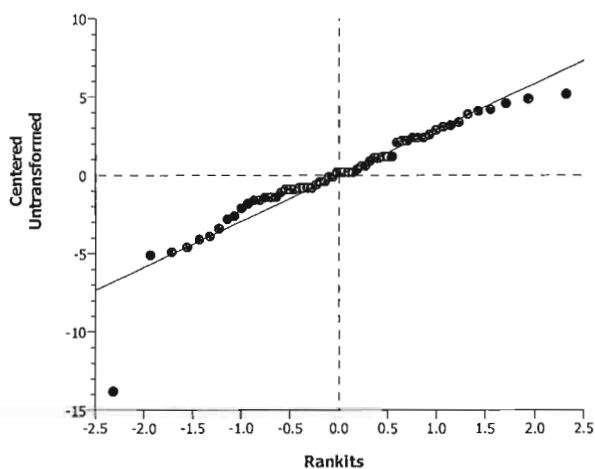
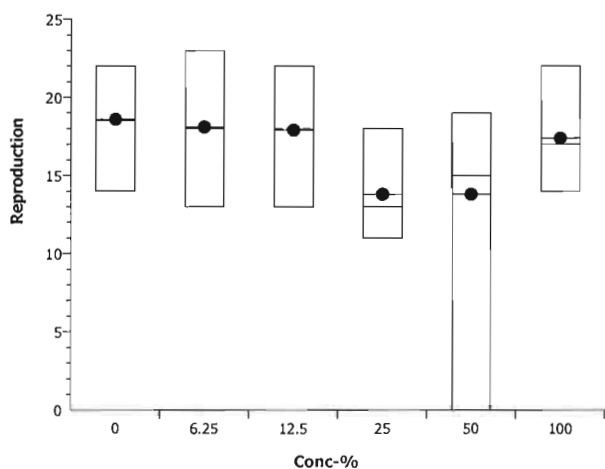
Analysis ID: 11-0942-3123      Endpoint: Reproduction  
 Analyzed: 22 Nov-11 14:58      Analysis: Nonparametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	19	14	16	18	17	17	21	21	22	21
6.25		21	13	17	23	19	18	18	16	22	14
12.5		20	17	19	21	19	13	17	22	17	14
25		14	13	18	13	13	17	13	12	11	14
50		19	0	14	14	16	14	15	15	15	16
100		18	20	17	17	16	14	16	16	18	22

Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 14:58 (p 1 of 4)  
 Test Code: 10-7017-6461/VCF1011064ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 12-2694-3167	Endpoint: Reproduction	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 14:58	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 15-1933-1631	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:15	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d	Source: Aquatic Biosystems, CO	Age:
Sample ID: 07-9599-8437	Code: VCF1011064cc	Client: VCWPD
Sample Date: 05 Oct-11 09:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 7h (6.5 °C)	Station: MO-HUE	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	9495566	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	18.6	15 - NL	Yes	Result Within Limits

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	13.49	2.597	17.03	7.412	5.872	38.5
IC10	17.5	5.194	23.08	5.714	4.333	19.25
IC15	21.51	12.22	N/A	4.649	N/A	8.184
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

**Reproduction Summary**

Conc-%	Control Type	Count	Calculated Variate						
			Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	18.6	14	22	0.4807	2.633	14.16%	0.0%
6.25		10	18.1	13	23	0.5991	3.281	18.13%	2.69%
12.5		10	17.9	13	22	0.5267	2.885	16.12%	3.76%
25		10	13.8	11	18	0.3925	2.15	15.58%	25.81%
50		10	13.8	0	19	0.9262	5.073	36.76%	25.81%
100		10	17.4	14	22	0.4146	2.271	13.05%	6.45%

**Reproduction Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	19	14	16	18	17	17	21	21	22	21
6.25		21	13	17	23	19	18	18	16	22	14
12.5		20	17	19	21	19	13	17	22	17	14
25		14	13	18	13	13	17	13	12	11	14
50		19	0	14	14	16	14	15	15	15	16
100		18	20	17	17	16	14	16	16	18	22

# CETIS Analytical Report

Report Date: 22 Nov-11 14:58 (p 2 of 4)  
Test Code: 10-7017-6461/VCF1011064ccer

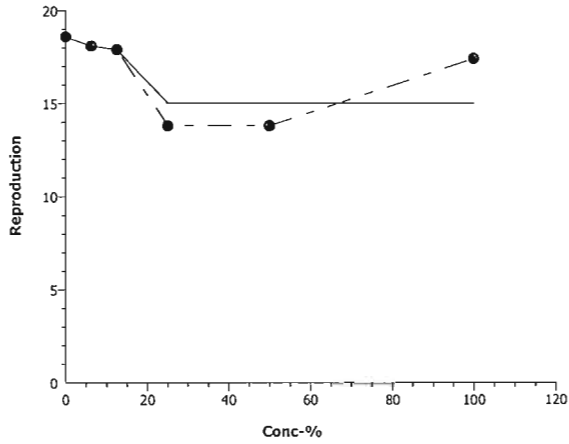
Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 12-2694-3167      Endpoint: Reproduction  
Analyzed: 22 Nov-11 14:58      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 14:58 (p 3 of 4)  
 Test Code: 10-7017-6461/VCF1011064ccer

**Ceriodaphnia 7-d Survival and Reproduction Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 11-4233-1583	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 14:58	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 15-1933-1631	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:15	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d	Source: Aquatic Biosystems, CO	Age:
Sample ID: 07-9599-8437	Code: VCF1011064cc	Client: VCWPD
Sample Date: 05 Oct-11 09:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 7h (6.5 °C)	Station: MO-HUE	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	9495566	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	100	33.33	N/A	1	N/A	3
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

**7d Survival Rate Summary**

**Calculated Variate(A/B)**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	0.9	0	1	0.05774	0.3162	35.14%	10.0%	9	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	0	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

# CETIS Analytical Report

Report Date: 22 Nov-11 14:58 (p 4 of 4)  
Test Code: 10-7017-6461/VCF1011064ccer

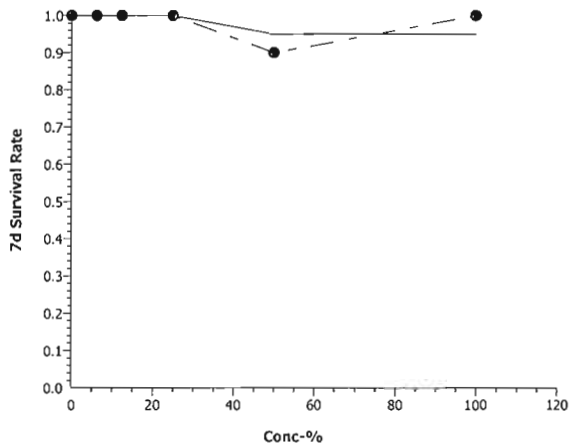
Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 11-4233-1583      Endpoint: 7d Survival Rate  
Analyzed: 22 Nov-11 14:58      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 14:58 (p 1 of 2)  
 Test Code: 10-7017-6461/VCF1011064ccer

<b>Ceriodaphnia 7-d Survival and Reproduction Test</b>			<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>		
Analysis ID: 00-8264-7601	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0			
Analyzed: 22 Nov-11 14:58	Analysis: STP 2x2 Contingency Tables	Official Results: Yes			
Batch ID: 15-1933-1631	Test Type: Reproduction-Survival (7d)	Analyst:			
Start Date: 05 Oct-11 16:15	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water			
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable			
Duration: 7d	Source: Aquatic Biosystems, CO	Age:			
Sample ID: 07-9599-8437	Code: VCF1011064cc	Client: VCWPD			
Sample Date: 05 Oct-11 09:15	Material: Sample Water	Project: 2010/11-1 (Wet)			
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report				
Sample Age: 7h (6.5 °C)	Station: MO-HUE				

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	100	>100	N/A	1	N/A

**Fisher Exact/Bonferroni-Holm Test**

Control	vs	Conc-%	Test Stat	P-Value	Decision(0.05)
Negative Control		6.25	1	1.0000	Non-Significant Effect
		12.5	1	1.0000	Non-Significant Effect
		25	1	1.0000	Non-Significant Effect
		50	0.5	1.0000	Non-Significant Effect
		100	1	1.0000	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Result Within Limits

**Data Summary**

Conc-%	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
6.25		10	0	10
12.5		10	0	10
25		10	0	10
50		9	1	10
100		10	0	10

**7d Survival Rate Detail**

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	0	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

# CETIS Analytical Report

Report Date: 22 Nov-11 14:58 (p 2 of 2)  
Test Code: 10-7017-6461/VCF1011064ccer

Ceriodaphnia 7-d Survival and Reproduction Test

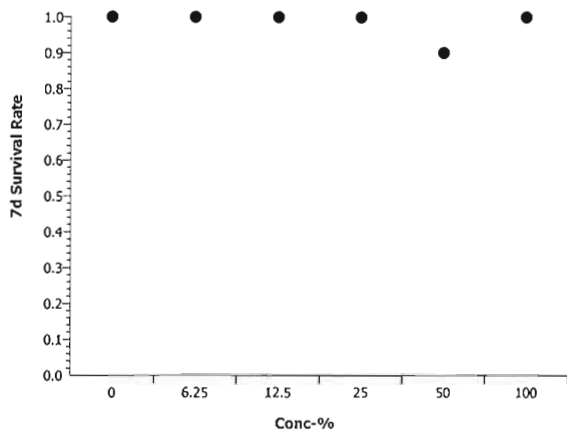
Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 00-8264-7601  
Analyzed: 22 Nov-11 14:58

Endpoint: 7d Survival Rate  
Analysis: STP 2x2 Contingency Tables

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics





# CETIS Measurement Report

Report Date: 22 Nov-11 14:58 (p 1 of 2)  
 Test Code: 10-7017-6461/VCF1011064ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 15-1933-1631	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 05 Oct-11 16:15	Protocol: EPA/821/R-02-013 (2002)	Diluent: Receiving Water
Ending Date: 12 Oct-11 16:00	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 7d	Source: Aquatic Biosystems, CO	Age:
Sample ID: 07-9599-8437	Code: VCF1011064cc	Client: VCWPD
Sample Date: 05 Oct-11 09:15	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:25	Source: Bioassay Report	
Sample Age: 7h (6.5 °C)	Station: MO-HUE	

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	62	62	62	62	62	0	0	0.0%	0
100		8	188	188	188	188	188	0	0	0.0%	0
Overall		16	125			62	188				0 (0%)

### Conductivity-µmhos

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	329.4	325	333.8	311	349	2.162	12.97	3.94%	0
6.25		8	423.1	419.8	426.5	403	435	1.656	9.935	2.35%	0
12.5		8	524.6	519.2	530	504	547	2.653	15.92	3.03%	0
25		8	739.1	734.1	744.1	719	759	2.468	14.81	2.0%	0
50		8	1153	1148	1159	1131	1183	2.626	15.76	1.37%	0
100		8	1927	1920	1934	1880	1948	3.429	20.58	1.07%	0
Overall		48	849.4			311	1948				0 (0%)

### Dissolved Oxygen-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.875	7.691	8.059	6.8	8.6	0.09074	0.5445	6.91%	0
6.25		8	7.588	7.304	7.871	5.6	8.2	0.1396	0.8374	11.04%	0
12.5		8	7.575	7.309	7.841	5.7	8.1	0.1309	0.7851	10.36%	0
25		8	7.563	7.337	7.788	6.1	8.2	0.1112	0.6675	8.83%	0
50		8	7.55	7.315	7.785	5.9	8.1	0.1158	0.6949	9.2%	0
100		8	7.55	7.25	7.85	5.5	8.3	0.1477	0.8864	11.74%	0
Overall		48	7.617			5.5	8.6				0 (0%)

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	88.5	88.19	88.81	88	90	0.1543	0.9258	1.05%	0
100		8	480	480	480	480	480	0	0	0.0%	0
Overall		16	284.3			88	480				0 (0%)

### pH-Units

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.963	7.937	7.988	7.8	8	0.0124	0.0744	0.93%	0
6.25		8	7.8	7.717	7.883	7.2	7.9	0.04082	0.2449	3.14%	0
12.5		8	7.738	7.663	7.812	7.2	7.9	0.03666	0.22	2.84%	0
25		8	16.19	8.01	24.36	7.3	76	4.028	24.17	149.3%	0
50		8	7.588	7.542	7.633	7.4	7.8	0.0226	0.1356	1.79%	0
100		8	7.363	7.27	7.455	6.9	7.7	0.04537	0.2722	3.7%	0
Overall		48	9.106			6.9	76				0 (0%)

# CETIS Measurement Report

Report Date: 22 Nov-11 14:58 (p 2 of 2)  
 Test Code: 10-7017-6461/VCF1011064ccer

## Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

### Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.05	24.02	24.08	24	24.2	0.01542	0.09255	0.38%	0
6.25		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
12.5		8	24.09	24.04	24.13	24	24.4	0.0226	0.1356	0.56%	0
25		8	24.04	24.02	24.05	24	24.1	0.008611	0.05167	0.22%	0
50		8	24.03	24.01	24.04	24	24.1	0.007704	0.04623	0.19%	0
100		8	24.04	24.01	24.06	24	24.2	0.01239	0.07436	0.31%	0
Overall		48	24.04			24	24.4				0 (0%)

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	62	62	62	62	62	62	62	62
100		188	188	188	188	188	188	188	188

### Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	311	349	324	325	325	323	330	348
6.25		403	421	416	427	428	425	430	435
12.5		504	511	511	522	525	532	545	547
25		743	732	721	736	748	719	755	759
50		1151	1131	1138	1149	1155	1158	1162	1183
100		1927	1923	1880	1933	1942	1933	1948	1928

### Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.2	8.6	8	8.1	8.1	7.7	7.5	6.8
6.25		7.9	8.2	7.9	8	8	7.7	7.4	5.6
12.5		8	8.1	7.8	7.9	7.9	7.8	7.4	5.7
25		7.4	8.2	8.1	7.9	7.8	7.7	7.3	6.1
50		7.7	8.1	7.8	7.9	7.8	7.8	7.4	5.9
100		8.3	8.1	7.8	7.9	7.8	7.8	7.2	5.5

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	90	90	88	88	88	88	88	88
100		480	480	480	480	480	480	480	480

### pH-Units

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	8	8	8	8	8	7.9	7.8
6.25		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.2
12.5		7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.2
25		7.6	7.7	7.6	7.8	7.6	7.7	7.8	7.3
50		7.4	7.5	7.5	7.7	7.7	7.5	7.6	7.8
100		6.9	7.1	7.4	7.6	7.5	7.5	7.7	7.2

### Temperature-°C

Conc-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24	24	24	24.2	24	24	24.2
6.25		24	24	24	24.1	24.1	24	24	24
12.5		24	24	24	24.1	24	24.1	24.4	24.1
25		24	24.1	24	24	24	24	24.1	24.1
50		24	24.1	24	24	24	24.1	24	24
100		24	24.2	24	24	24	24	24	24.1



November 23<sup>rd</sup>, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

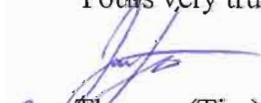
We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MPK
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.056

#### CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC =	100.00 %
TU <sub>c</sub> =	1.00
IC25 =	>100.00 %
IC50 =	>100.00 %

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

# CETIS Summary Report

Report Date: 22 Nov-11 15:14 (p 1 of 1)  
 Test Code: 17-6444-1062/VCF1011056sel

Selenastrum Growth Test				Aquatic Bioassay & Consulting Labs, Inc.			
Batch ID:	00-3157-2990	Test Type:	Cell Growth	Analyst:			
Start Date:	06 Oct-11 09:40	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Laboratory Water		
Ending Date:	10 Oct-11 10:00	Species:	Selenastrum capricornutum	Brine:	Not Applicable		
Duration:	4d 0h	Source:	Aquatic Biosystems, CO	Age:			
Sample ID:	08-5239-9672	Code:	VCF1011056s	Client:	VCWPD		
Sample Date:	05 Oct-11 08:30	Material:	Sample Water	Project:	2010/11-1 (Wet)		
Receive Date:	05 Oct-11 12:15	Source:	Bioassay Report				
Sample Age:	25h (6.5 °C)	Station:	MO-MPK				

Comparison Summary							
Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
15-7510-3782	Cell Density	100	>100	N/A	11.85%	1	Dunnett's Multiple Comparison Test

Point Estimate Summary							
Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
06-2227-8176	Cell Density	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability						
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
06-2227-8176	Cell Density	Control CV	0.07656	NL - 0.2	Yes	Result Within Limits
15-7510-3782	Cell Density	Control CV	0.07656	NL - 0.2	Yes	Result Within Limits
06-2227-8176	Cell Density	Control Resp	1.12E+6	1.00E+6 - NL	Yes	Result Within Limits
15-7510-3782	Cell Density	Control Resp	1.12E+6	1.00E+6 - NL	Yes	Result Within Limits
15-7510-3782	Cell Density	PMSD	0.1185	0.091 - 0.29	Yes	Result Within Limits

Cell Density Summary											
Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.125E+6	1.092E+6	1.157E+6	1.032E+6	1.227E+6	1.572E+4	8.609E+4	7.66%	0.0%
6.25		4	1.284E+6	1.263E+6	1.304E+6	1.213E+6	1.333E+6	9.939E+3	5.444E+4	4.24%	-14.14%
12.5		4	1.341E+6	1.318E+6	1.364E+6	1.285E+6	1.401E+6	1.118E+4	6.124E+4	4.57%	-19.28%
25		4	1.426E+6	1.406E+6	1.445E+6	1.349E+6	1.462E+6	9.560E+3	5.236E+4	3.67%	-26.79%
50		4	1.501E+6	1.471E+6	1.530E+6	1.405E+6	1.585E+6	1.450E+4	7.940E+4	5.29%	-33.44%
100		4	1.625E+6	1.581E+6	1.668E+6	1.501E+6	1.765E+6	2.130E+4	1.167E+5	7.18%	-44.49%

Cell Density Detail					
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.080E+6	1.032E+6	1.227E+6	1.159E+6
6.25		1.213E+6	1.333E+6	1.319E+6	1.269E+6
12.5		1.387E+6	1.401E+6	1.292E+6	1.285E+6
25		1.349E+6	1.436E+6	1.462E+6	1.456E+6
50		1.585E+6	1.542E+6	1.405E+6	1.470E+6
100		1.501E+6	1.765E+6	1.563E+6	1.670E+6

**CETIS Analytical Report**

Report Date: 22 Nov-11 15:14 (p 1 of 2)  
 Test Code: 17-6444-1062/VCF1011056sel

**Selenastrum Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 15-7510-3782	Endpoint: Cell Density	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 15:14	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 00-3157-2990	Test Type: Cell Growth	Analyst:
Start Date: 06 Oct-11 09:40	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 10 Oct-11 10:00	Species: Selenastrum capricornutum	Brine: Not Applicable
Duration: 4d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 08-5239-9672	Code: VCF1011056s	Client: VCWPD
Sample Date: 05 Oct-11 08:30	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:15	Source: Bioassay Report	
Sample Age: 25h (6.5 °C)	Station: MO-MPK	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	100	>100	N/A	1	11.85%

**Dunnett's Multiple Comparison Test**

Control	vs Conc-%	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control	6.25	-2.872	2.407	133300	0.9999	Non-Significant Effect
	12.5	-3.915	2.407	133300	1.0000	Non-Significant Effect
	25	-5.441	2.407	133300	1.0000	Non-Significant Effect
	50	-6.791	2.407	133300	1.0000	Non-Significant Effect
	100	-9.035	2.407	133300	1.0000	Non-Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.07656	NL - 0.2	Yes	Result Within Limits
Control Resp	1.12E+6	1.00E+6 - NL	Yes	Result Within Limits
PMSD	0.1185	0.091 - 0.29	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.025	2.802	0.8489	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	6.101664E+11	1.220333E+11	5	19.9	<0.0001	Significant Effect
Error	1.103592E+11	6131069000	18			
Total	7.205256E+11	1.281643E+11	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	2.677	15.09	0.7497	Equal Variances
Variances	Mod Levene Equality of Variance	1.514	4.248	0.2349	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9608		0.4551	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1688	0.2056	0.0751	Normal Distribution
Distribution	D'Agostino Skewness	0.05884	2.576	0.9531	Normal Distribution
Distribution	D'Agostino Kurtosis	1.019	2.576	0.3084	Normal Distribution
Distribution	D'Agostino Omnibus	1.041	9.21	0.5942	Normal Distribution

**Cell Density Summary**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.125E+6	1.092E+6	1.157E+6	1.032E+6	1.227E+6	1.599E+4	8.609E+4	7.66%	0.0%
6.25		4	1.284E+6	1.263E+6	1.304E+6	1.213E+6	1.333E+6	1.011E+4	5.444E+4	4.24%	-14.14%
12.5		4	1.341E+6	1.318E+6	1.365E+6	1.285E+6	1.401E+6	1.137E+4	6.124E+4	4.57%	-19.28%
25		4	1.426E+6	1.406E+6	1.446E+6	1.349E+6	1.462E+6	9.723E+3	5.236E+4	3.67%	-26.79%
50		4	1.501E+6	1.470E+6	1.531E+6	1.405E+6	1.585E+6	1.474E+4	7.940E+4	5.29%	-33.44%
100		4	1.625E+6	1.580E+6	1.669E+6	1.501E+6	1.765E+6	2.167E+4	1.167E+5	7.18%	-44.49%

# CETIS Analytical Report

Report Date: 22 Nov-11 15:14 (p 2 of 2)  
 Test Code: 17-6444-1062/VCF1011056sel

## Selenastrum Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

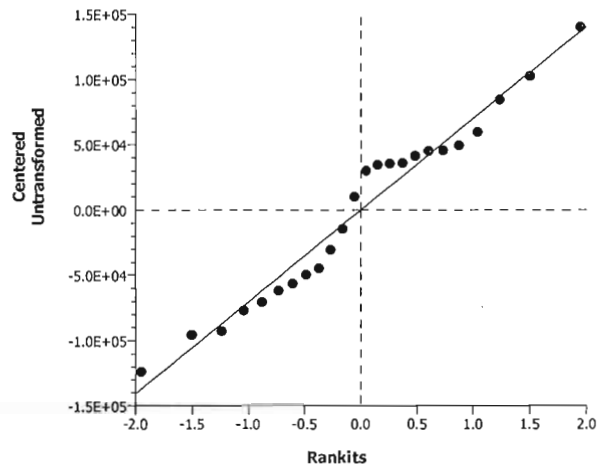
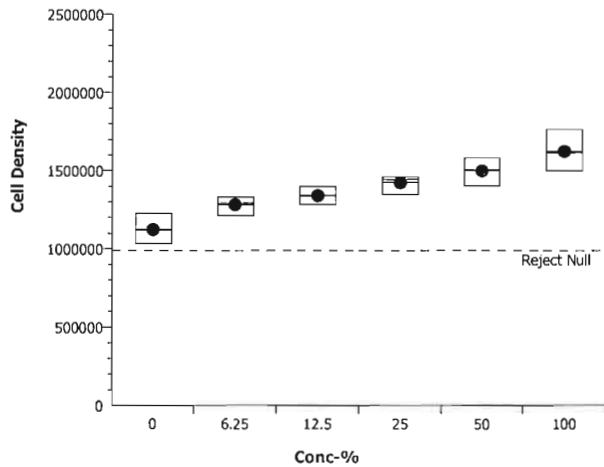
Analysis ID: 15-7510-3782      Endpoint: Cell Density  
 Analyzed: 22 Nov-11 15:14      Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

### Cell Density Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.080E+6	1.032E+6	1.227E+6	1.159E+6
6.25		1.213E+6	1.333E+6	1.319E+6	1.269E+6
12.5		1.387E+6	1.401E+6	1.292E+6	1.285E+6
25		1.349E+6	1.436E+6	1.462E+6	1.456E+6
50		1.585E+6	1.542E+6	1.405E+6	1.470E+6
100		1.501E+6	1.765E+6	1.563E+6	1.670E+6

### Graphics





**CETIS Analytical Report**

Report Date: 22 Nov-11 15:14 (p 1 of 2)  
 Test Code: 17-6444-1062/VCF1011056sel

Selenastrum Growth Test			Aquatic Bioassay & Consulting Labs, Inc.		
Analysis ID: 06-2227-8176	Endpoint: Cell Density	CETIS Version: CETISv1.7.0			
Analyzed: 22 Nov-11 15:14	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes			
Batch ID: 00-3157-2990	Test Type: Cell Growth	Analyst:			
Start Date: 06 Oct-11 09:40	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water			
Ending Date: 10 Oct-11 10:00	Species: Selenastrum capricornutum	Brine: Not Applicable			
Duration: 4d 0h	Source: Aquatic Biosystems, CO	Age:			
Sample ID: 08-5239-9672	Code: VCF1011056s	Client: VCWPD			
Sample Date: 05 Oct-11 08:30	Material: Sample Water	Project: 2010/11-1 (Wet)			
Receive Date: 05 Oct-11 12:15	Source: Bioassay Report				
Sample Age: 25h (6.5 °C)	Station: MO-MPK				

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	3640187	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.07656	NL - 0.2	Yes	Result Within Limits
Control Resp	1.12E+6	1.00E+6 - NL	Yes	Result Within Limits

Residual Analysis					
Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.025	2.802	0.8489	No Outliers Detected

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	N/A	N/A
IC10	>100	N/A	N/A	<1	N/A	N/A
IC15	>100	N/A	N/A	<1	N/A	N/A
IC20	>100	N/A	N/A	<1	N/A	N/A
IC25	>100	N/A	N/A	<1	N/A	N/A
IC40	>100	N/A	N/A	<1	N/A	N/A
IC50	>100	N/A	N/A	<1	N/A	N/A

Cell Density Summary			Calculated Variate							
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	
0	Negative Control	4	1.125E+6	1.032E+6	1.227E+6	1.572E+4	8.609E+4	7.66%	0.0%	
6.25		4	1.284E+6	1.213E+6	1.333E+6	9.939E+3	5.444E+4	4.24%	-14.14%	
12.5		4	1.341E+6	1.285E+6	1.401E+6	1.118E+4	6.124E+4	4.57%	-19.28%	
25		4	1.426E+6	1.349E+6	1.462E+6	9.560E+3	5.236E+4	3.67%	-26.79%	
50		4	1.501E+6	1.405E+6	1.585E+6	1.450E+4	7.940E+4	5.29%	-33.44%	
100		4	1.625E+6	1.501E+6	1.765E+6	2.130E+4	1.167E+5	7.18%	-44.49%	

Cell Density Detail					
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.080E+6	1.032E+6	1.227E+6	1.159E+6
6.25		1.213E+6	1.333E+6	1.319E+6	1.269E+6
12.5		1.387E+6	1.401E+6	1.292E+6	1.285E+6
25		1.349E+6	1.436E+6	1.462E+6	1.456E+6
50		1.585E+6	1.542E+6	1.405E+6	1.470E+6
100		1.501E+6	1.765E+6	1.563E+6	1.670E+6

# CETIS Analytical Report

Report Date: 22 Nov-11 15:14 (p 2 of 2)

Test Code: 17-6444-1062/VCF1011056sel

Selenastrum Growth Test

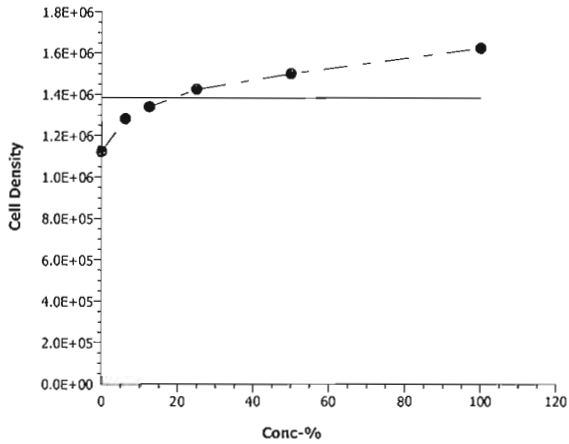
Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 06-2227-8176  
Analyzed: 22 Nov-11 15:14

Endpoint: Cell Density  
Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics





**CETIS Measurement Report**

Report Date: 22 Nov-11 15:14 (p 1 of 2)  
 Test Code: 17-6444-1062/VCF1011056sel

Selenastrum Growth Test Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 00-3157-2990	Test Type: Cell Growth	Analyst:
Start Date: 06 Oct-11 09:40	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 10 Oct-11 10:00	Species: Selenastrum capricornutum	Brine: Not Applicable
Duration: 4d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 08-5239-9672	Code: VCF1011056s	Client: VCWPD
Sample Date: 05 Oct-11 08:30	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 12:15	Source: Bioassay Report	
Sample Age: 25h (6.5 °C)	Station: MO-MPK	

**Alkalinity (CaCO3)-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	78			78	78	0	0	0.0%	0
6.25		1	73			73	73	0	0	0.0%	0
12.5		1	81			81	81	0	0	0.0%	0
25		1	78			78	78	0	0	0.0%	0
50		1	77			77	77	0	0	0.0%	0
100		1	74			74	74	0	0	0.0%	0
Overall		6	76.83			73	81				0 (0%)

**Conductivity-µmhos**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	420.2	418.5	421.9	416	428	0.8199	4.919	1.17%	0
6.25		5	439.8	436.4	443.2	426	454	1.677	10.06	2.29%	0
12.5		5	428.6	426.5	430.7	422	435	1.045	6.269	1.46%	0
25		5	428.8	428.4	429.2	428	430	0.1826	1.095	0.26%	0
50		5	444.2	443.3	445.1	440	447	0.4314	2.588	0.58%	0
100		5	478	475.9	480.1	473	489	1.054	6.325	1.32%	0
Overall		30	439.9			416	489				0 (0%)

**Hardness (CaCO3)-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	122			122	122	0	0	0.0%	0
6.25		1	126			126	126	0	0	0.0%	0
12.5		1	143			143	143	0	0	0.0%	0
25		1	143			143	143	0	0	0.0%	0
50		1	152			152	152	0	0	0.0%	0
100		1	160			160	160	0	0	0.0%	0
Overall		6	141			122	160				0 (0%)

**pH-Units**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	7.76	7.715	7.805	7.7	8	0.02236	0.1342	1.73%	0
6.25		5	7.76	7.715	7.805	7.7	8	0.02236	0.1342	1.73%	0
12.5		5	7.76	7.715	7.805	7.7	8	0.02236	0.1342	1.73%	0
25		5	7.62	7.564	7.676	7.5	7.9	0.02739	0.1643	2.16%	0
50		5	7.48	7.419	7.541	7.4	7.8	0.02981	0.1789	2.39%	0
100		5	7.32	7.239	7.401	7	7.6	0.03979	0.2387	3.26%	0
Overall		30	7.617			7	8				0 (0%)

**Temperature-°C**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	24	24	24	24	24	0	0	0.0%	0
6.25		5	24	24	24	24	24	0	0	0.0%	0
12.5		5	24	24	24	24	24	0	0	0.0%	0
25		5	24	24	24	24	24	0	0	0.0%	0
50		5	24	24	24	24	24	0	0	0.0%	0
100		5	24	24	24	24	24	0	0	0.0%	0
Overall		30	24			24	24				0 (0%)

# CETIS Measurement Report

Report Date: 22 Nov-11 15:14 (p 2 of 2)  
 Test Code: 17-6444-1062/VCF1011056sel

## Selenastrum Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### Alkalinity (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	78
6.25		73
12.5		81
25		78
50		77
100		74

### Conductivity-µmhos

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	428	418	417	422	416
6.25		426	437	440	442	454
12.5		423	422	428	435	435
25		430	428	428	428	430
50		445	444	445	440	447
100		476	473	477	475	489

### Hardness (CaCO3)-mg/L

Conc-%	Control Type	1
0	Negative Contr	122
6.25		126
12.5		143
25		143
50		152
100		160

### pH-Units

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	7.7	7.7	7.7	8
6.25		7.7	7.7	7.7	7.7	8
12.5		7.7	7.7	7.7	7.7	8
25		7.5	7.6	7.5	7.6	7.9
50		7.4	7.4	7.4	7.4	7.8
100		7	7.2	7.3	7.5	7.6

### Temperature-°C

Conc-%	Control Type	1	2	3	4	5
0	Negative Contr	24	24	24	24	24
6.25		24	24	24	24	24
12.5		24	24	24	24	24
25		24	24	24	24	24
50		24	24	24	24	24
100		24	24	24	24	24



November 23<sup>rd</sup>, 2011

Mr. Arne Anselm  
Ventura County Watershed Protection District  
800 South Victoria Ave  
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, EPA-600/R95/136, 1995*. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	ME-SCR
DATE RECEIVED:	10/5/2011
ABC LAB. NO.:	VCF1011.061

#### CHRONIC SEA URCHIN FERTILIZATION BIOASSAY

NOEC = 50.00 %

TU<sub>c</sub> = 2.00

IC<sub>25</sub> = >100.00 %

IC<sub>50</sub> = >100.00 %

Yours very truly,

Thomas (Tim) Mikel  
Laboratory Director

# CETIS Summary Report

Report Date: 22 Nov-11 15:22 (p 1 of 1)  
 Test Code: 16-5275-7896/VCF1011061urcf

## Purple Sea Urchin Sperm Cell Fertilization Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 03-3700-7167	Test Type: Fertilization	Analyst:
Start Date: 05 Oct-11 15:10	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 05 Oct-11 16:00	Species: Strongylocentrotus purpuratus	Brine: Not Applicable
Duration: 50m	Source: David Gutoff	Age:
Sample ID: 02-3599-3046	Code: VCF1011061uf	Client: VCWPD
Sample Date: 05 Oct-11 10:30	Material: Sample Water	Project: 2010/11-1 (Wet)
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report	
Sample Age: 5h (6.5 °C)	Station: ME-SCR	

### Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
15-3719-5923	Fertilization Rate	50	100	70.71	0.37%	2	Steel Many-One Rank Test

### Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
09-7739-9560	Fertilization Rate	EC5	81.25	76.96	86.42	1.231	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	

### Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
09-7739-9560	Fertilization Rate	Control Resp	1	0.7 - NL	Yes	Result Within Limits
15-3719-5923	Fertilization Rate	Control Resp	1	0.7 - NL	Yes	Result Within Limits
15-3719-5923	Fertilization Rate	PMSD	0.003656	NL - 0.25	No	Result Within Limits

### Fertilization Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	0.0%
12.5		4	1	1	1	1	1	0	0	0.0%	0.0%
25		4	1	1	1	1	1	0	0	0.0%	0.0%
50		4	1	1	1	1	1	0	0	0.0%	0.0%
100		4	0.92	0.917	0.923	0.91	0.93	0.00149	0.008164	0.89%	8.0%

### Fertilization Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		1	1	1	1
50		1	1	1	1
100		0.91	0.92	0.93	0.92

**CETIS Analytical Report**

Report Date: 22 Nov-11 15:22 (p 1 of 2)  
 Test Code: 16-5275-7896/VCF1011061urcf

<b>Purple Sea Urchin Sperm Cell Fertilization Test</b>			<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>		
Analysis ID: 15-3719-5923	Endpoint: Fertilization Rate	CETIS Version: CETISv1.7.0			
Analyzed: 22 Nov-11 15:21	Analysis: Nonparametric-Control vs Treatments	Official Results: Yes			
Batch ID: 03-3700-7167	Test Type: Fertilization	Analyst:			
Start Date: 05 Oct-11 15:10	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater			
Ending Date: 05 Oct-11 16:00	Species: Strongylocentrotus purpuratus	Brine: Not Applicable			
Duration: 50m	Source: David Gutoff	Age:			
Sample ID: 02-3599-3046	Code: VCF1011061uf	Client: VCWPD			
Sample Date: 05 Oct-11 10:30	Material: Sample Water	Project: 2010/11-1 (Wet)			
Receive Date: 05 Oct-11 14:29	Source: Bioassay Report				
Sample Age: 5h (6.5 °C)	Station: ME-SCR				

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	50	100	70.71	2	0.37%

**Steel Many-One Rank Test**

Control	vs	Conc-%	Test Stat	Critical	Ties	P-Value	Decision(5%)
Negative Control		6.25	18	10	1	0.8333	Non-Significant Effect
		12.5	18	10	1	0.8333	Non-Significant Effect
		25	18	10	1	0.8333	Non-Significant Effect
		50	18	10	1	0.8333	Non-Significant Effect
		100*	10	10	0	0.0417	Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.7 - NL	Yes	Result Within Limits
PMSD	0.003656	NL - 0.25	No	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	3.439	2.802	0.0011	Outlier Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.1863957	0.03727914	5	983.7	<0.0001	Significant Effect
Error	0.0006821658	3.78981E-05	18			
Total	0.1870779	0.03731704	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Mod Levene Equality of Variance	2.995	4.248	0.0386	Equal Variances
Distribution	Shapiro-Wilk Normality	0.4077		<0.0001	Non-normal Distribution
Distribution	Kolmogorov-Smirnov	0.4583	0.2056	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	0.3565	2.576	0.7215	Normal Distribution
Distribution	D'Agostino Kurtosis	4.066	2.576	<0.0001	Non-normal Distribution
Distribution	D'Agostino Omnibus	16.66	9.21	0.0002	Non-normal Distribution

# CETIS Analytical Report

Report Date: 22 Nov-11 15:22 (p 2 of 2)  
 Test Code: 16-5275-7896/VCF1011061urcf

## Purple Sea Urchin Sperm Cell Fertilization Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 15-3719-5923      Endpoint: Fertilization Rate  
 Analyzed: 22 Nov-11 15:21      Analysis: Nonparametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

### Fertilization Rate Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	0.0%
12.5		4	1	1	1	1	1	0	0	0.0%	0.0%
25		4	1	1	1	1	1	0	0	0.0%	0.0%
50		4	1	1	1	1	1	0	0	0.0%	0.0%
100		4	0.92	0.9169	0.9231	0.91	0.93	0.001516	0.008164	0.89%	8.0%

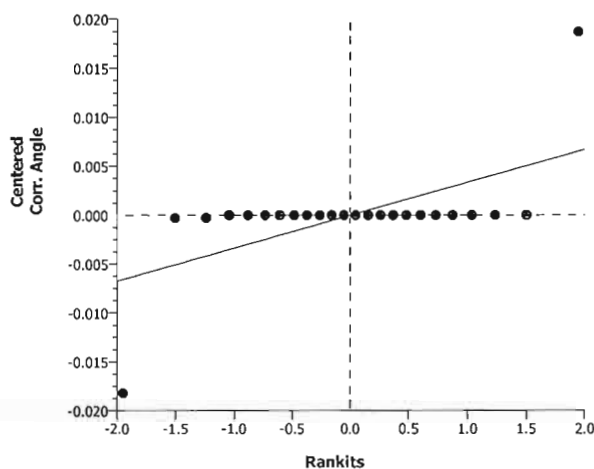
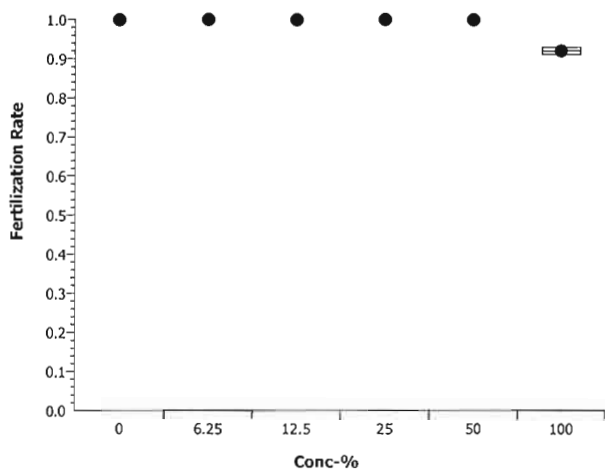
### Angular (Corrected) Transformed Summary

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.521	1.521	1.521	1.521	1.521	0	0	0.0%	0.0%
6.25		4	1.521	1.521	1.521	1.521	1.521	0	0	0.0%	0.0%
12.5		4	1.521	1.521	1.521	1.521	1.521	0	0	0.0%	0.0%
25		4	1.521	1.521	1.521	1.521	1.521	0	0	0.0%	0.0%
50		4	1.521	1.521	1.521	1.521	1.521	0	0	0.0%	0.0%
100		4	1.284	1.279	1.29	1.266	1.303	0.0028	0.01508	1.17%	15.55%

### Fertilization Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		1	1	1	1
50		1	1	1	1
100		0.91	0.92	0.93	0.92

### Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 15:22 (p 1 of 2)  
 Test Code: 16-5275-7896/VCF1011061urcf

<b>Purple Sea Urchin Sperm Cell Fertilization Test</b>				<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>			
Analysis ID:	09-7739-9560	Endpoint:	Fertilization Rate	CETIS Version:	CETISv1.7.0		
Analyzed:	22 Nov-11 15:22	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes		
Batch ID:	03-3700-7167	Test Type:	Fertilization	Analyst:			
Start Date:	05 Oct-11 15:10	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater		
Ending Date:	05 Oct-11 16:00	Species:	Strongylocentrotus purpuratus	Brine:	Not Applicable		
Duration:	50m	Source:	David Gutoff	Age:			
Sample ID:	02-3599-3046	Code:	VCF1011061uf	Client:	VCWPD		
Sample Date:	05 Oct-11 10:30	Material:	Sample Water	Project:	2010/11-1 (Wet)		
Receive Date:	05 Oct-11 14:29	Source:	Bioassay Report				
Sample Age:	5h (6.5 °C)	Station:	ME-SCR				

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5248684	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.7 - NL	Yes	Result Within Limits

Point Estimates						
Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	81.25	76.96	86.42	1.231	1.157	1.299
EC10	>100	N/A	N/A	<1	N/A	N/A
EC15	>100	N/A	N/A	<1	N/A	N/A
EC20	>100	N/A	N/A	<1	N/A	N/A
EC25	>100	N/A	N/A	<1	N/A	N/A
EC40	>100	N/A	N/A	<1	N/A	N/A
EC50	>100	N/A	N/A	<1	N/A	N/A

Fertilization Rate Summary			Calculated Variate(A/B)									
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B	
0	Negative Control	4	1	1	1	0	0	0.0%	0.0%	400	400	
6.25		4	1	1	1	0	0	0.0%	0.0%	400	400	
12.5		4	1	1	1	0	0	0.0%	0.0%	400	400	
25		4	1	1	1	0	0	0.0%	0.0%	400	400	
50		4	1	1	1	0	0	0.0%	0.0%	400	400	
100		4	0.92	0.91	0.93	0.00149	0.008164	0.89%	8.0%	368	400	

Fertilization Rate Detail					
Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		1	1	1	1
50		1	1	1	1
100		0.91	0.92	0.93	0.92



# CETIS Analytical Report

Report Date: 22 Nov-11 15:22 (p 2 of 2)  
Test Code: 16-5275-7896/VCF1011061urcf

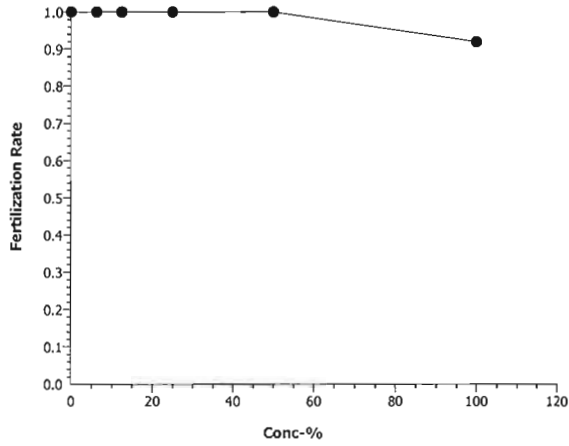
Purple Sea Urchin Sperm Cell Fertilization Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 09-7739-9560      Endpoint: Fertilization Rate  
Analyzed: 22 Nov-11 15:22      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics





**CETIS Measurement Report**

Report Date: 22 Nov-11 15:22 (p 1 of 2)  
 Test Code: 16-5275-7896/VCF1011061urcf

**Purple Sea Urchin Sperm Cell Fertilization Test**

**Aquatic Bioassay & Consulting Labs, Inc.**

<b>Batch ID:</b> 03-3700-7167	<b>Test Type:</b> Fertilization	<b>Analyst:</b>
<b>Start Date:</b> 05 Oct-11 15:10	<b>Protocol:</b> EPA/600/R-95/136 (1995)	<b>Diluent:</b> Laboratory Seawater
<b>Ending Date:</b> 05 Oct-11 16:00	<b>Species:</b> Strongylocentrotus purpuratus	<b>Brine:</b> Not Applicable
<b>Duration:</b> 50m	<b>Source:</b> David Gutoff	<b>Age:</b>
<b>Sample ID:</b> 02-3599-3046	<b>Code:</b> VCF1011061uf	<b>Client:</b> VCWPD
<b>Sample Date:</b> 05 Oct-11 10:30	<b>Material:</b> Sample Water	<b>Project:</b> 2010/11-1 (Wet)
<b>Receive Date:</b> 05 Oct-11 14:29	<b>Source:</b> Bioassay Report	
<b>Sample Age:</b> 5h (6.5 °C)	<b>Station:</b> ME-SCR	

**Parameter Acceptability**

Parameter	Min	Max	Acceptability Limits	Overlap	Decision
Salinity-ppt	34	34	32 - 36	Yes	Results Within Limits
Temperature-°C	14.7	14.9	11 - 13	Yes	Results Above Limit

**Dissolved Oxygen-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	6.05	5.978	6.122	5.9	6.2	0.03536	0.2121	3.51%	0
6.25		2	6.2	6.009	6.391	5.8	6.6	0.09428	0.5657	9.12%	0
12.5		2	6.55	6.526	6.574	6.5	6.6	0.01178	0.0707	1.08%	0
25		2	6.55	6.526	6.574	6.5	6.6	0.01178	0.0707	1.08%	0
50		2	6.25	6.083	6.417	5.9	6.6	0.0825	0.495	7.92%	0
100		2	6.2	6.056	6.344	5.9	6.5	0.07071	0.4243	6.84%	0
Overall		12	6.3			5.8	6.6				0 (0%)

**Total Ammonia (N)-mg/L**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
100		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

**pH-Units**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	7.85	7.826	7.874	7.8	7.9	0.01178	0.07071	0.9%	0
6.25		2	7.85	7.826	7.874	7.8	7.9	0.01178	0.07071	0.9%	0
12.5		2	7.85	7.826	7.874	7.8	7.9	0.01178	0.07071	0.9%	0
25		2	7.85	7.826	7.874	7.8	7.9	0.01178	0.07071	0.9%	0
50		2	7.85	7.826	7.874	7.8	7.9	0.01178	0.07071	0.9%	0
100		2	7.85	7.826	7.874	7.8	7.9	0.01178	0.07071	0.9%	0
Overall		12	7.85			7.8	7.9				0 (0%)

**Salinity-ppt**

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	34	34	34	34	34	0	0	0.0%	0
6.25		2	34	34	34	34	34	0	0	0.0%	0
12.5		2	34	34	34	34	34	0	0	0.0%	0
25		2	34	34	34	34	34	0	0	0.0%	0
50		2	34	34	34	34	34	0	0	0.0%	0
100		2	34	34	34	34	34	0	0	0.0%	0
Overall		12	34			34	34				0 (0%)

# CETIS Measurement Report

Report Date: 22 Nov-11 15:22 (p 2 of 2)  
 Test Code: 16-5275-7896/VCF1011061urcf

## Purple Sea Urchin Sperm Cell Fertilization Test

Aquatic Bioassay & Consulting Labs, Inc.

### Temperature-°C

Conc-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	2	14.75	14.73	14.77	14.7	14.8	0.01179	0.07075	0.48%	0
6.25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
12.5		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
25		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
50		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
100		2	14.85	14.83	14.87	14.8	14.9	0.0118	0.07077	0.48%	0
Overall		12	14.83			14.7	14.9				0 (0%)

### Dissolved Oxygen-mg/L

Conc-%	Control Type	1	2
0	Negative Contr	6.2	5.9
6.25		6.6	5.8
12.5		6.6	6.5
25		6.6	6.5
50		6.6	5.9
100		6.5	5.9

### Total Ammonia (N)-mg/L

Conc-%	Control Type	1
0	Negative Contr	0
100		0

### pH-Units

Conc-%	Control Type	1	2
0	Negative Contr	7.9	7.8
6.25		7.9	7.8
12.5		7.9	7.8
25		7.9	7.8
50		7.9	7.8
100		7.9	7.8

### Salinity-ppt

Conc-%	Control Type	1	2
0	Negative Contr	34	34
6.25		34	34
12.5		34	34
25		34	34
50		34	34
100		34	34

### Temperature-°C

Conc-%	Control Type	1	2
0	Negative Contr	14.7	14.8
6.25		14.9	14.8
12.5		14.9	14.8
25		14.9	14.8
50		14.9	14.8
100		14.9	14.8



## CHRONIC FATHEAD LARVAE BIOASSAY

DATE: 10/6/2011

STANDARD TOXICANT: Copper Chloride

ENDPOINT Survival

NOEC = 75.00 ug/L  
IC25 = 87.50 ug/L  
IC50 = >100.00 ug/L

ENDPOINT Biomass

NOEC = 75.00 ug/L  
IC25 = 74.72 ug/L  
IC50 = 91.67 ug/L

Yours very truly,

Thomas (Tim) Mikel  
Laboratory Director

**CETIS Summary Report**

Report Date: 22 Nov-11 15:39 (p 1 of 2)  
 Test Code: 07-0434-6745/FML100611fml

**Fathead Minnow 7-d Larval Survival and Growth Test**

**Aquatic Bioassay & Consulting Labs, Inc.**

<b>Batch ID:</b> 12-5444-6828	<b>Test Type:</b> Growth-Survival (7d)	<b>Analyst:</b>
<b>Start Date:</b> 06 Oct-11 14:27	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> Laboratory Water
<b>Ending Date:</b> 13 Oct-11 12:30	<b>Species:</b> Pimephales promelas	<b>Brine:</b> Not Applicable
<b>Duration:</b> 6d 22h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b>
<b>Sample ID:</b> 18-6255-7548	<b>Code:</b> FML100611	<b>Client:</b> ABC Labs
<b>Sample Date:</b> 06 Oct-11 14:27	<b>Material:</b> Copper chloride	<b>Project:</b> REF TOX
<b>Receive Date:</b> 06 Oct-11 14:27	<b>Source:</b> Reference Toxicant	
<b>Sample Age:</b> N/A	<b>Station:</b> REF TOX	

**Comparison Summary**

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
04-5148-2574	7d Survival Rate	75	100	86.6	15.59%		Dunnett's Multiple Comparison Test
18-9676-1138	Mean Dry Biomass-mg	75	100	86.6	29.89%		Dunnett's Multiple Comparison Test

**Point Estimate Summary**

Analysis ID	Endpoint	Level	µg/L	95% LCL	95% UCL	TU	Method
02-3000-2326	7d Survival Rate	EC5	3.933	2.245	10.9		Linear Interpolation (ICPIN)
		EC10	7.867	4.49	117		
		EC15	77.33	N/A	87.6		
		EC20	82.41	73.22	107.4		
		EC25	87.5	77.21	N/A		
		EC40	>100	N/A	N/A		
04-4852-0557	Mean Dry Biomass-mg	IC5	27.98	19.13	59.57		Linear Interpolation (ICPIN)
		IC10	36.96	19.57	72.21		
		IC15	49.26	17.87	87.73		
		IC20	61.99	15.9	86.51		
		IC25	74.72	13.94	83.52		
		IC40	84.97	74.4	93.59		
		IC50	91.67	83.76	104.8		

**Test Acceptability**

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
02-3000-2326	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
04-5148-2574	7d Survival Rate	Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits
04-4852-0557	Mean Dry Biomass-mg	Control Resp	0.3198	0.25 - NL	Yes	Result Within Limits
18-9676-1138	Mean Dry Biomass-mg	Control Resp	0.3198	0.25 - NL	Yes	Result Within Limits
18-9676-1138	Mean Dry Biomass-mg	PMSD	0.2989	0.12 - 0.3	Yes	Result Within Limits

**7d Survival Rate Summary**

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9709	0.9958	0.9333	1	0.006086	0.03333	3.39%	0.0%
10		4	0.7667	0.704	0.8293	0.5333	0.9333	0.03063	0.1678	21.88%	22.03%
19		4	0.95	0.9262	0.9738	0.8667	1	0.01165	0.06383	6.72%	3.39%
38		4	0.85	0.8075	0.8925	0.7333	1	0.02079	0.1139	13.39%	13.56%
75		4	0.8667	0.8463	0.887	0.8	0.9333	0.009938	0.05443	6.28%	11.86%
100		4	0.6167	0.5452	0.6882	0.4667	0.8667	0.03496	0.1915	31.05%	37.29%

**Mean Dry Biomass-mg Summary**

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3198	0.3111	0.3286	0.294	0.3507	0.004275	0.02341	7.32%	0.0%
10		4	0.3112	0.2803	0.342	0.2247	0.422	0.01508	0.08261	26.55%	2.71%
19		4	0.3978	0.374	0.4217	0.3347	0.4767	0.01165	0.06379	16.03%	-24.39%
38		4	0.3067	0.2807	0.3326	0.2207	0.3893	0.0127	0.06954	22.68%	4.12%
75		4	0.2568	0.2444	0.2692	0.2073	0.278	0.006055	0.03317	12.91%	19.7%
100		4	0.1288	0.1142	0.1435	0.1007	0.1847	0.007174	0.03929	30.5%	59.72%

# CETIS Summary Report

Report Date: 22 Nov-11 15:39 (p 2 of 2)  
Test Code: 07-0434-6745/FML100611fml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### 7d Survival Rate Detail

Conc- $\mu$ g/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.9333
10		0.8	0.9333	0.8	0.5333
19		1	0.9333	1	0.8667
38		0.8	1	0.8667	0.7333
75		0.8667	0.9333	0.8667	0.8
100		0.6667	0.8667	0.4667	0.4667

### Mean Dry Biomass-mg Detail

Conc- $\mu$ g/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.294	0.3147	0.3507	0.32
10		0.3133	0.422	0.2847	0.2247
19		0.4767	0.3347	0.4207	0.3593
38		0.32	0.3893	0.2967	0.2207
75		0.2713	0.278	0.2707	0.2073
100		0.128	0.1847	0.1007	0.102

**CETIS Analytical Report**

Report Date: 22 Nov-11 15:39 (p 1 of 4)  
 Test Code: 07-0434-6745/FML100611fml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 18-9676-1138	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 15:38	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 12-5444-6828	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 14:27	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 12:30	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 18-6255-7548	Code: FML100611	Client: ABC Labs
Sample Date: 06 Oct-11 14:27	Material: Copper chloride	Project: REF TOX
Receive Date: 06 Oct-11 14:27	Source: Reference Toxicant	
Sample Age: N/A	Station: REF TOX	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	75	100	86.6		29.89%

**Dunnett's Multiple Comparison Test**

Control	vs	Conc-µg/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		10	0.2183	2.407	0.09558	0.7611	Non-Significant Effect
		19	-1.964	2.407	0.09558	0.9990	Non-Significant Effect
		38	0.3316	2.407	0.09558	0.7178	Non-Significant Effect
		75	1.587	2.407	0.09558	0.2013	Non-Significant Effect
		100*	4.81	2.407	0.09558	0.0003	Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3198	0.25 - NL	Yes	Result Within Limits
PMSD	0.2989	0.12 - 0.3	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.231	2.802	0.4546	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.1610379	0.03220757	5	10.21	<0.0001	Significant Effect
Error	0.05676522	0.003153624	18			
Total	0.2178031	0.0353612	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.478	15.09	0.3604	Equal Variances
Variances	Mod Levene Equality of Variance	1.07	4.248	0.4094	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9706		0.6806	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1146	0.2056	0.5817	Normal Distribution
Distribution	D'Agostino Skewness	0.7381	2.576	0.4604	Normal Distribution
Distribution	D'Agostino Kurtosis	0.3804	2.576	0.7036	Normal Distribution
Distribution	D'Agostino Omnibus	0.6896	9.21	0.7084	Normal Distribution

**Mean Dry Biomass-mg Summary**

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3198	0.3109	0.3287	0.294	0.3507	0.004348	0.02341	7.32%	0.0%
10		4	0.3112	0.2797	0.3426	0.2247	0.422	0.01534	0.08261	26.55%	2.71%
19		4	0.3978	0.3736	0.4221	0.3347	0.4767	0.01185	0.06379	16.03%	-24.39%
38		4	0.3067	0.2802	0.3331	0.2207	0.3893	0.01291	0.06954	22.68%	4.12%
75		4	0.2568	0.2442	0.2694	0.2073	0.278	0.006159	0.03317	12.91%	19.7%
100		4	0.1288	0.1139	0.1438	0.1007	0.1847	0.007296	0.03929	30.5%	59.72%

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

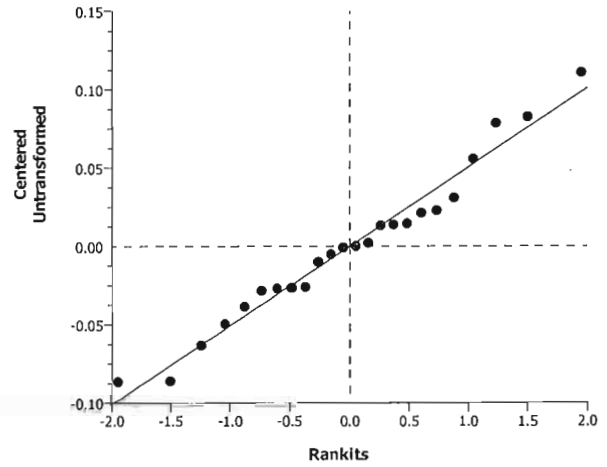
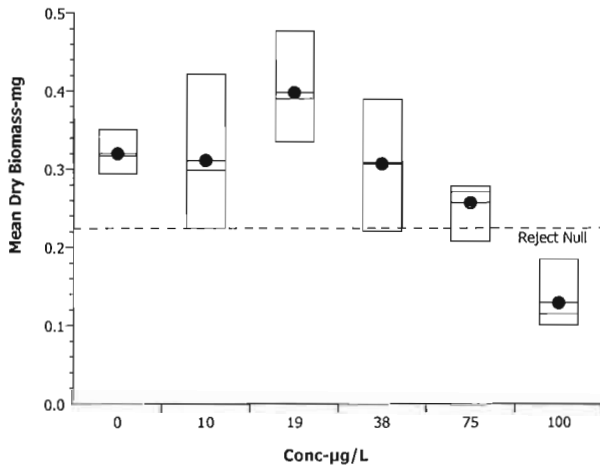
Analysis ID: 18-9676-1138      Endpoint: Mean Dry Biomass-mg  
 Analyzed: 22 Nov-11 15:38      Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

Mean Dry Biomass-mg Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.294	0.3147	0.3507	0.32
10		0.3133	0.422	0.2847	0.2247
19		0.4767	0.3347	0.4207	0.3593
38		0.32	0.3893	0.2967	0.2207
75		0.2713	0.278	0.2707	0.2073
100		0.128	0.1847	0.1007	0.102

Graphics





**CETIS Analytical Report**

Report Date: 22 Nov-11 15:39 (p 3 of 4)  
 Test Code: 07-0434-6745/FML100611fml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 04-5148-2574	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 15:38	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 12-5444-6828	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 14:27	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 12:30	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 18-6255-7548	Code: FML100611	Client: ABC Labs
Sample Date: 06 Oct-11 14:27	Material: Copper chloride	Project: REF TOX
Receive Date: 06 Oct-11 14:27	Source: Reference Toxicant	
Sample Age: N/A	Station: REF TOX	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	75	100	86.6		15.59%

**Dunnett's Multiple Comparison Test**

Control	vs Conc-µg/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control	10*	2.959	2.407	0.2625	0.0167	Significant Effect
	19	0.5601	2.407	0.2625	0.6211	Non-Significant Effect
	38	1.971	2.407	0.2625	0.1094	Non-Significant Effect
	75	1.886	2.407	0.2625	0.1262	Non-Significant Effect
	100*	4.533	2.407	0.2625	0.0006	Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.074	2.802	0.7373	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	0.6384438	0.1276888	5	5.368	0.0034	Significant Effect
Error	0.428149	0.02378606	18			
Total	1.066593	0.1514748	23			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	5.339	15.09	0.3759	Equal Variances
Variances	Mod Levene Equality of Variance	0.9554	4.248	0.4703	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9632		0.5069	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1313	0.2056	0.3482	Normal Distribution
Distribution	D'Agostino Skewness	0.5939	2.576	0.5526	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2069	2.576	0.8361	Normal Distribution
Distribution	D'Agostino Omnibus	0.3955	9.21	0.8206	Normal Distribution



# CETIS Analytical Report

Report Date: 22 Nov-11 15:39 (p 4 of 4)  
 Test Code: 07-0434-6745/FML100611fml

## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 04-5148-2574      Endpoint: 7d Survival Rate  
 Analyzed: 22 Nov-11 15:38      Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

### 7d Survival Rate Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.9833	0.9707	0.996	0.9333	1	0.00619	0.03333	3.39%	0.0%
10		4	0.7667	0.7028	0.8305	0.5333	0.9333	0.03115	0.1678	21.88%	22.03%
19		4	0.95	0.9257	0.9743	0.8667	1	0.01185	0.06383	6.72%	3.39%
38		4	0.85	0.8067	0.8933	0.7333	1	0.02114	0.1139	13.39%	13.56%
75		4	0.8667	0.846	0.8874	0.8	0.9333	0.01011	0.05443	6.28%	11.86%
100		4	0.6167	0.5438	0.6895	0.4667	0.8667	0.03556	0.1915	31.05%	37.29%

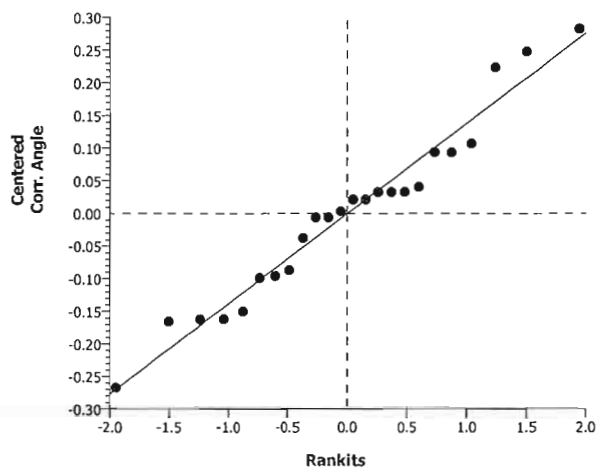
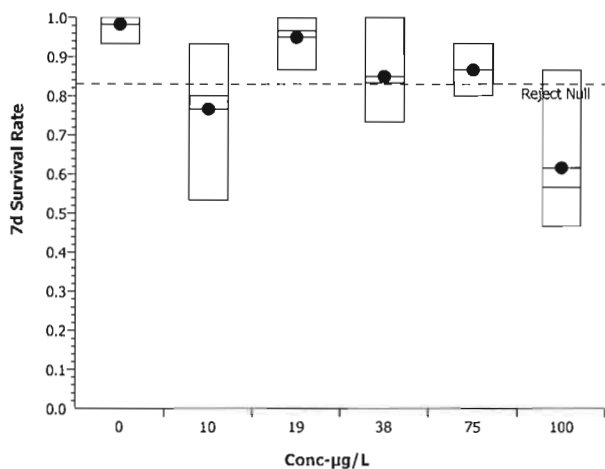
### Angular (Corrected) Transformed Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	4	1.408	1.383	1.433	1.31	1.441	0.01223	0.06585	4.68%	0.0%
10		4	1.086	1.009	1.162	0.8188	1.31	0.0375	0.2019	18.6%	22.92%
19		4	1.347	1.302	1.392	1.197	1.441	0.02189	0.1179	8.75%	4.34%
38		4	1.193	1.125	1.262	1.028	1.441	0.03326	0.1791	15.01%	15.27%
75		4	1.203	1.171	1.234	1.107	1.31	0.0154	0.08293	6.9%	14.61%
100		4	0.9141	0.8336	0.9946	0.752	1.197	0.03928	0.2116	23.14%	35.1%

### 7d Survival Rate Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.9333
10		0.8	0.9333	0.8	0.5333
19		1	0.9333	1	0.8667
38		0.8	1	0.8667	0.7333
75		0.8667	0.9333	0.8667	0.8
100		0.6667	0.8667	0.4667	0.4667

### Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 15:39 (p 1 of 4)

Test Code: 07-0434-6745/FML100611fml

<b>Fathead Minnow 7-d Larval Survival and Growth Test</b>			<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>		
Analysis ID: 04-4852-0557	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0			
Analyzed: 22 Nov-11 15:38	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes			
Batch ID: 12-5444-6828	Test Type: Growth-Survival (7d)	Analyst:			
Start Date: 06 Oct-11 14:27	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water			
Ending Date: 13 Oct-11 12:30	Species: Pimephales promelas	Brine: Not Applicable			
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:			
Sample ID: 18-6255-7548	Code: FML100611	Client: ABC Labs			
Sample Date: 06 Oct-11 14:27	Material: Copper chloride	Project: REF TOX			
Receive Date: 06 Oct-11 14:27	Source: Reference Toxicant				
Sample Age: N/A	Station: REF TOX				

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7671117	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.3198	0.25 - NL	Yes	Result Within Limits

Residual Analysis					
Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.231	2.802	0.4546	No Outliers Detected

Point Estimates			
Level	µg/L	95% LCL	95% UCL
IC5	27.98	19.13	59.57
IC10	36.96	19.57	72.21
IC15	49.26	17.87	87.73
IC20	61.99	15.9	86.51
IC25	74.72	13.94	83.52
IC40	84.97	74.4	93.59
IC50	91.67	83.76	104.8

Mean Dry Biomass-mg Summary			Calculated Variate						
Conc-µg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.3198	0.294	0.3507	0.004275	0.02341	7.32%	0.0%
10		4	0.3112	0.2247	0.422	0.01508	0.08261	26.55%	2.71%
19		4	0.3978	0.3347	0.4767	0.01165	0.06379	16.03%	-24.39%
38		4	0.3067	0.2207	0.3893	0.0127	0.06954	22.68%	4.12%
75		4	0.2568	0.2073	0.278	0.006055	0.03317	12.91%	19.7%
100		4	0.1288	0.1007	0.1847	0.007174	0.03929	30.5%	59.72%

Mean Dry Biomass-mg Detail					
Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.294	0.3147	0.3507	0.32
10		0.3133	0.422	0.2847	0.2247
19		0.4767	0.3347	0.4207	0.3593
38		0.32	0.3893	0.2967	0.2207
75		0.2713	0.278	0.2707	0.2073
100		0.128	0.1847	0.1007	0.102

# CETIS Analytical Report

Report Date: 22 Nov-11 15:39 (p 2 of 4)  
Test Code: 07-0434-6745/FML100611fml

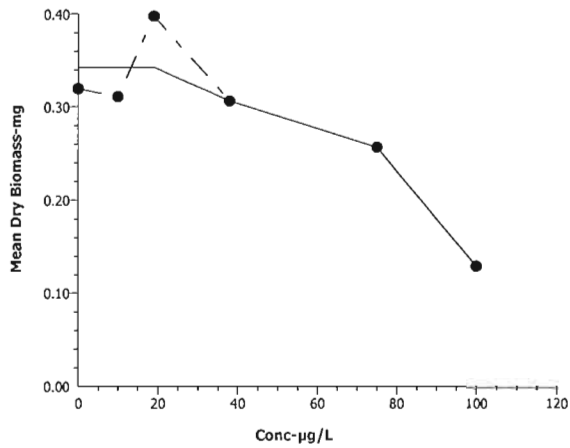
Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 04-4852-0557      Endpoint: Mean Dry Biomass-mg  
Analyzed: 22 Nov-11 15:38      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



**CETIS Analytical Report**

Report Date: 22 Nov-11 15:39 (p 3 of 4)  
 Test Code: 07-0434-6745/FML100611fml

**Fathead Minnow 7-d Larval Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 02-3000-2326	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 22 Nov-11 15:38	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 12-5444-6828	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 06 Oct-11 14:27	Protocol: EPA/821/R-02-013 (2002)	Diluent: Laboratory Water
Ending Date: 13 Oct-11 12:30	Species: Pimephales promelas	Brine: Not Applicable
Duration: 6d 22h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 18-6255-7548	Code: FML100611	Client: ABC Labs
Sample Date: 06 Oct-11 14:27	Material: Copper chloride	Project: REF TOX
Receive Date: 06 Oct-11 14:27	Source: Reference Toxicant	
Sample Age: N/A	Station: REF TOX	

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7671117	280	Yes	Two-Point Interpolation

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9833	0.8 - NL	Yes	Result Within Limits

**Residual Analysis**

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.074	2.802	0.7373	No Outliers Detected

**Point Estimates**

Level	µg/L	95% LCL	95% UCL
EC5	3.933	2.245	10.9
EC10	7.867	4.49	117
EC15	77.33	N/A	87.6
EC20	82.41	73.22	107.4
EC25	87.5	77.21	N/A
EC40	>100	N/A	N/A
EC50	>100	N/A	N/A

**7d Survival Rate Summary**

Conc-µg/L	Control Type	Count	Calculated Variate(A/B)								
			Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.9833	0.9333	1	0.006086	0.03333	3.39%	0.0%	59	60
10		4	0.7667	0.5333	0.9333	0.03063	0.1678	21.88%	22.03%	46	60
19		4	0.95	0.8667	1	0.01165	0.06383	6.72%	3.39%	57	60
38		4	0.85	0.7333	1	0.02079	0.1139	13.39%	13.56%	51	60
75		4	0.8667	0.8	0.9333	0.009938	0.05443	6.28%	11.86%	52	60
100		4	0.6167	0.4667	0.8667	0.03496	0.1915	31.05%	37.29%	37	60

**7d Survival Rate Detail**

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.9333
10		0.8	0.9333	0.8	0.5333
19		1	0.9333	1	0.8667
38		0.8	1	0.8667	0.7333
75		0.8667	0.9333	0.8667	0.8
100		0.6667	0.8667	0.4667	0.4667

# CETIS Analytical Report

Report Date: 22 Nov-11 15:39 (p 4 of 4)  
Test Code: 07-0434-6745/FML100611fml

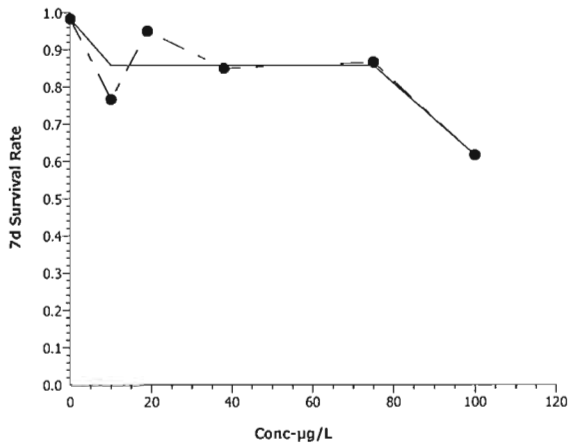
## Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 02-3000-2326      Endpoint: 7d Survival Rate  
Analyzed: 22 Nov-11 15:38      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

### Graphics





## CHRONIC TOPSMELT SURVIVAL AND GROWTH BIOASSAY

DATE: 10/5/2011

STANDARD TOXICANT: Copper Chloride

ENDPOINT: SURVIVAL

NOEC = 56.00 ug/l

IC25 = 69.54 ug/l

IC50 = 89.85 ug/l

ENDPOINT: GROWTH

NOEC = 56.00 ug/l

IC25 = 69.15 ug/l

IC50 = 89.78 ug/l

Yours very truly,

Scott Johnson  
Laboratory Director

# CETIS Summary Report

Report Date: 21 Nov-11 15:23 (p 1 of 2)  
 Test Code: 16-4122-4366/TOPS100511tops

Pacific Topsmelt 7-d Survival and Growth Test				Aquatic Bioassay & Consulting Labs, Inc.			
Batch ID:	11-2277-4923	Test Type:	Growth-Survival (7d)	Analyst:			
Start Date:	05 Oct-11 15:50	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater		
Ending Date:	12 Oct-11 16:00	Species:	Atherinops affinis	Brine:	Not Applicable		
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:			
Sample ID:	08-6338-9857	Code:	TOPS100511	Client:	ABC Labs		
Sample Date:	05 Oct-11 15:00	Material:	Copper chloride	Project:	REF TOX		
Receive Date:	05 Oct-11 15:00	Source:	Reference Toxicant				
Sample Age:	50m	Station:	REF TOX				

Comparison Summary							
Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
04-3561-8392	7d Survival Rate	56	100	74.83	19.63%		Dunnett's Multiple Comparison Test
19-3165-4951	Mean Dry Biomass-mg	56	100	74.83	20.66%		Dunnett's Multiple Comparison Test

Point Estimate Summary							
Analysis ID	Endpoint	Level	µg/L	95% LCL	95% UCL	TU	Method
15-4869-8056	7d Survival Rate	EC5	33.6	1.91E-06	73.8		Linear Interpolation (ICPIN)
		EC10	57.35	4.923	68.52		
		EC15	61.42	19.69	73.09		
		EC20	65.48	34.46	78.24		
		EC25	69.54	49.23	82.95		
		EC40	81.72	68.34	97.41		
13-2484-2140	Mean Dry Biomass-mg	IC5	30.92	2.655	74.45		Linear Interpolation (ICPIN)
		IC10	56.78	7.837	67.43		
		IC15	60.9	23.89	71.32		
		IC20	65.03	39.94	75.54		
		IC25	69.15	52.76	80.21		
		IC40	81.53	68.74	97.21		
IC50	89.78	77.12	110.9				

Test Acceptability						
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
04-3561-8392	7d Survival Rate	Control Resp	0.96	0.8 - NL	Yes	Result Within Limits
15-4869-8056	7d Survival Rate	Control Resp	0.96	0.8 - NL	Yes	Result Within Limits
13-2484-2140	Mean Dry Biomass-mg	Control Resp	1.692	0.85 - NL	Yes	Result Within Limits
19-3165-4951	Mean Dry Biomass-mg	Control Resp	1.692	0.85 - NL	Yes	Result Within Limits
04-3561-8392	7d Survival Rate	PMSD	0.1963	NL - 0.25	No	Result Within Limits
19-3165-4951	Mean Dry Biomass-mg	PMSD	0.2066	NL - 0.5	No	Result Within Limits

7d Survival Rate Summary											
Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	0.96	0.9266	0.9934	0.8	1	0.01633	0.08944	9.32%	0.0%
56		5	0.88	0.8132	0.9468	0.6	1	0.03266	0.1789	20.33%	8.33%
100		5	0.36	0.2975	0.4225	0.2	0.6	0.03055	0.1673	46.48%	62.5%
180		5	0	0	0	0	0	0	0		100.0%
320		5	0	0	0	0	0	0	0		100.0%
560		5	0	0	0	0	0	0	0		100.0%

Mean Dry Biomass-mg Summary											
Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	1.692	1.629	1.754	1.436	1.89	0.03067	0.168	9.93%	0.0%
56		5	1.538	1.426	1.651	1.224	1.864	0.05492	0.3008	19.55%	9.06%
100		5	0.6362	0.5258	0.7466	0.398	1.122	0.05397	0.2956	46.47%	62.39%
180		5	0	0	0	0	0	0	0		100.0%
320		5	0	0	0	0	0	0	0		100.0%
560		5	0	0	0	0	0	0	0		100.0%

# CETIS Summary Report

Report Date: 21 Nov-11 15:23 (p 2 of 2)

Test Code: 16-4122-4366/TOPS100511tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

### 7d Survival Rate Detail

Conc- $\mu$ g/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	0.8	1
56		1	1	0.6	0.8	1
100		0.4	0.2	0.6	0.2	0.4
180		0	0	0	0	0
320		0	0	0	0	0
560		0	0	0	0	0

### Mean Dry Biomass-mg Detail

Conc- $\mu$ g/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.89	1.742	1.642	1.436	1.748
56		1.362	1.384	1.224	1.864	1.858
100		0.694	0.542	1.122	0.398	0.425
180		0	0	0	0	0
320		0	0	0	0	0
560		0	0	0	0	0



**CETIS Analytical Report**

Report Date: 21 Nov-11 15:23 (p 1 of 4)  
 Test Code: 16-4122-4366/TOPS100511tops

<b>Pacific Topsmelt 7-d Survival and Growth Test</b>				<b>Aquatic Bioassay &amp; Consulting Labs, Inc.</b>			
Analysis ID: 19-3165-4951	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETISv1.7.0					
Analyzed: 21 Nov-11 15:23	Analysis: Parametric-Control vs Treatments	Official Results: Yes					
Batch ID: 11-2277-4923	Test Type: Growth-Survival (7d)	Analyst:					
Start Date: 05 Oct-11 15:50	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater					
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable					
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:					
Sample ID: 08-6338-9857	Code: TOPS100511	Client: ABC Labs					
Sample Date: 05 Oct-11 15:00	Material: Copper chloride	Project: REF TOX					
Receive Date: 05 Oct-11 15:00	Source: Reference Toxicant						
Sample Age: 50m	Station: REF TOX						

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	56	100	74.83		20.66%

**Dunnett's Multiple Comparison Test**

Control	vs Conc-µg/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control	56	0.9242	2.108	0.3495	0.2928	Non-Significant Effect
	100*	6.367	2.108	0.3495	<0.0001	Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1.692	0.85 - NL	Yes	Result Within Limits
PMSD	0.2066	NL - 0.5	No	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.002	2.548	0.4829	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	3.252174	1.626087	2	23.67	<0.0001	Significant Effect
Error	0.8243992	0.06869993	12			
Total	4.076573	1.694787	14			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.345	9.21	0.5104	Equal Variances
Variances	Mod Levene Equality of Variance	0.5731	8.022	0.5831	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9326		0.2983	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.1392	0.2542	0.6597	Normal Distribution
Distribution	D'Agostino Skewness	1.123	2.576	0.2614	Normal Distribution

**Mean Dry Biomass-mg Summary**

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	1.692	1.628	1.755	1.436	1.89	0.03119	0.168	9.93%	0.0%
56		5	1.538	1.424	1.653	1.224	1.864	0.05586	0.3008	19.55%	9.06%
100		5	0.6362	0.5238	0.7486	0.398	1.122	0.05489	0.2956	46.47%	62.39%
180		5	0	0	0	0	0	0	0		100.0%
320		5	0	0	0	0	0	0	0		100.0%
560		5	0	0	0	0	0	0	0		100.0%

# CETIS Analytical Report

Report Date: 21 Nov-11 15:23 (p 2 of 4)  
 Test Code: 16-4122-4366/TOPS100511tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

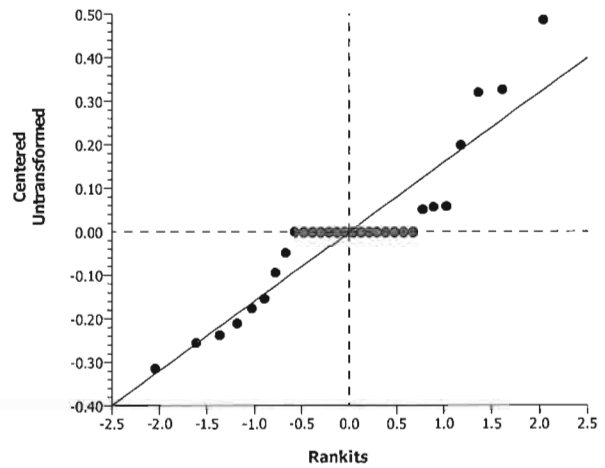
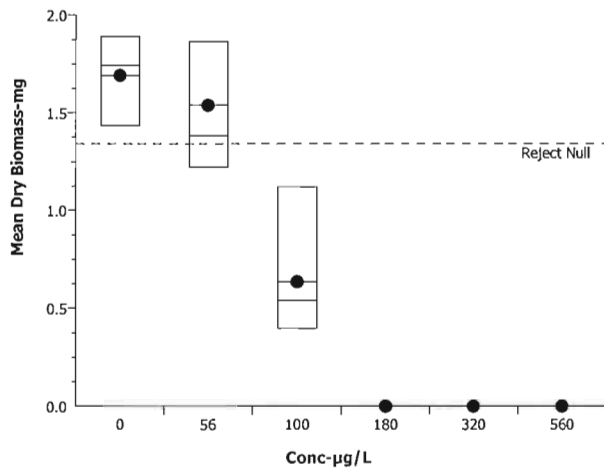
Analysis ID: 19-3165-4951      Endpoint: Mean Dry Biomass-mg  
 Analyzed: 21 Nov-11 15:23      Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

### Mean Dry Biomass-mg Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.89	1.742	1.642	1.436	1.748
56		1.362	1.384	1.224	1.864	1.858
100		0.694	0.542	1.122	0.398	0.425
180		0	0	0	0	0
320		0	0	0	0	0
560		0	0	0	0	0

### Graphics



**CETIS Analytical Report**

Report Date: 21 Nov-11 15:23 (p 3 of 4)  
 Test Code: 16-4122-4366/TOPS100511tops

**Pacific Topsmelt 7-d Survival and Growth Test**

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 04-3561-8392	Endpoint: 7d Survival Rate	CETIS Version: CETISv1.7.0
Analyzed: 21 Nov-11 15:23	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 11-2277-4923	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:50	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 08-6338-9857	Code: TOPS100511	Client: ABC Labs
Sample Date: 05 Oct-11 15:00	Material: Copper chloride	Project: REF TOX
Receive Date: 05 Oct-11 15:00	Source: Reference Toxicant	
Sample Age: 50m	Station: REF TOX	

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	56	100	74.83		19.63%

**Dunnett's Multiple Comparison Test**

Control	vs Conc-µg/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control	56	0.8597	2.108	0.2252	0.3158	Non-Significant Effect
	100*	6.188	2.108	0.2252	<0.0001	Significant Effect

**Test Acceptability**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.8 - NL	Yes	Result Within Limits
PMSD	0.1963	NL - 0.25	No	Result Within Limits

**Auxiliary Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision
Extreme Value	Grubbs Single Outlier	2.045	2.548	0.4197	No Outliers Detected

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	1.282548	0.6412739	2	22.48	<0.0001	Significant Effect
Error	0.3423824	0.02853186	12			
Total	1.62493	0.6698058	14			

**ANOVA Assumptions**

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	1.504	9.21	0.4715	Equal Variances
Variances	Mod Levene Equality of Variance	0.6349	8.022	0.5521	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9118		0.1444	Normal Distribution
Distribution	Kolmogorov-Smirnov	0.2863	0.2542	0.0017	Non-normal Distribution
Distribution	D'Agostino Skewness	1.024	2.576	0.3057	Normal Distribution

# CETIS Analytical Report

Report Date: 21 Nov-11 15:23 (p 4 of 4)  
 Test Code: 16-4122-4366/TOPS100511tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 04-3561-8392      Endpoint: 7d Survival Rate  
 Analyzed: 21 Nov-11 15:23      Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.7.0  
 Official Results: Yes

### 7d Survival Rate Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	0.96	0.926	0.994	0.8	1	0.01661	0.08944	9.32%	0.0%
56		5	0.88	0.812	0.948	0.6	1	0.03322	0.1789	20.33%	8.33%
100		5	0.36	0.2964	0.4236	0.2	0.6	0.03107	0.1673	46.48%	62.5%
180		5	0	0	0	0	0	0	0		100.0%
320		5	0	0	0	0	0	0	0		100.0%
560		5	0	0	0	0	0	0	0		100.0%

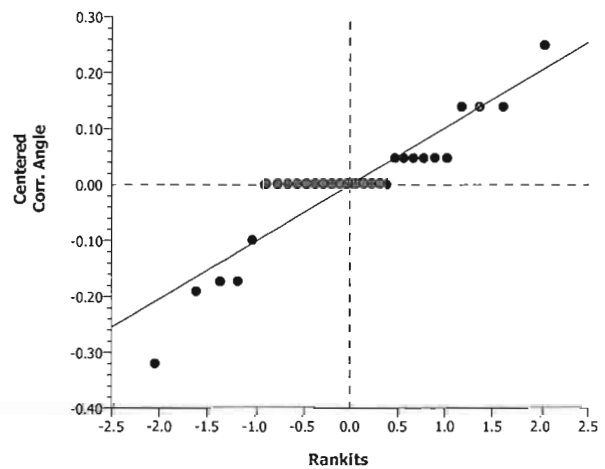
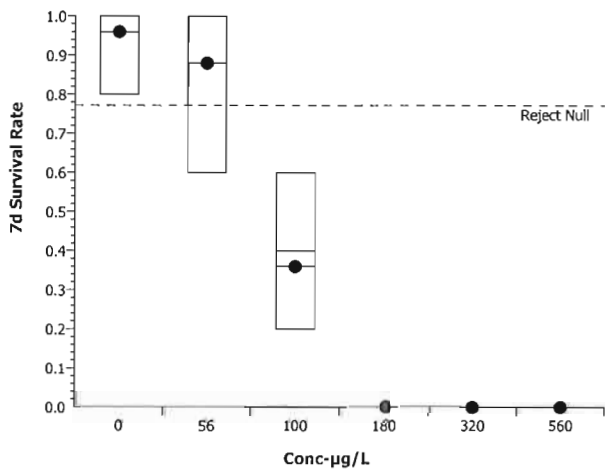
### Angular (Corrected) Transformed Summary

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Contr	5	1.298	1.257	1.338	1.107	1.345	0.01978	0.1065	8.21%	0.0%
56		5	1.206	1.127	1.284	0.8861	1.345	0.03832	0.2063	17.11%	7.08%
100		5	0.6366	0.5689	0.7043	0.4636	0.8861	0.03305	0.178	27.96%	50.95%
180		5	0.2255	0.2255	0.2255	0.2255	0.2255	0	0	0.0%	82.62%
320		5	0.2255	0.2255	0.2255	0.2255	0.2255	0	0	0.0%	82.62%
560		5	0.2255	0.2255	0.2255	0.2255	0.2255	0	0	0.0%	82.62%

### 7d Survival Rate Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	0.8	1
56		1	1	0.6	0.8	1
100		0.4	0.2	0.6	0.2	0.4
180		0	0	0	0	0
320		0	0	0	0	0
560		0	0	0	0	0

### Graphics



# CETIS Analytical Report

Report Date: 21 Nov-11 15:23 (p 1 of 4)  
 Test Code: 16-4122-4366/TOPS100511tops

Pacific Topsmelt 7-d Survival and Growth Test			Aquatic Bioassay & Consulting Labs, Inc.		
Analysis ID:	13-2484-2140	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.7.0
Analyzed:	21 Nov-11 15:23	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes
Batch ID:	11-2277-4923	Test Type:	Growth-Survival (7d)	Analyst:	
Start Date:	05 Oct-11 15:50	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	12 Oct-11 16:00	Species:	Atherinops affinis	Brine:	Not Applicable
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	08-6338-9857	Code:	TOPS100511	Client:	ABC Labs
Sample Date:	05 Oct-11 15:00	Material:	Copper chloride	Project:	REF TOX
Receive Date:	05 Oct-11 15:00	Source:	Reference Toxicant		
Sample Age:	50m	Station:	REF TOX		

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2895625	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1.692	0.85 - NL	Yes	Result Within Limits

Residual Analysis					
Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.881	2.908	0.0564	No Outliers Detected

Point Estimates			
Level	µg/L	95% LCL	95% UCL
IC5	30.92	2.655	74.45
IC10	56.78	7.837	67.43
IC15	60.9	23.89	71.32
IC20	65.03	39.94	75.54
IC25	69.15	52.76	80.21
IC40	81.53	68.74	97.21
IC50	89.78	77.12	110.9

Mean Dry Biomass-mg Summary			Calculated Variate						
Conc-µg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	5	1.692	1.436	1.89	0.03067	0.168	9.93%	0.0%
56		5	1.538	1.224	1.864	0.05492	0.3008	19.55%	9.06%
100		5	0.6362	0.398	1.122	0.05397	0.2956	46.47%	62.39%
180		5	0	0	0	0	0		100.0%
320		5	0	0	0	0	0		100.0%
560		5	0	0	0	0	0		100.0%

Mean Dry Biomass-mg Detail						
Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.89	1.742	1.642	1.436	1.748
56		1.362	1.384	1.224	1.864	1.858
100		0.694	0.542	1.122	0.398	0.425
180		0	0	0	0	0
320		0	0	0	0	0
560		0	0	0	0	0

# CETIS Analytical Report

Report Date: 21 Nov-11 15:23 (p 2 of 4)  
Test Code: 16-4122-4366/TOPS100511tops

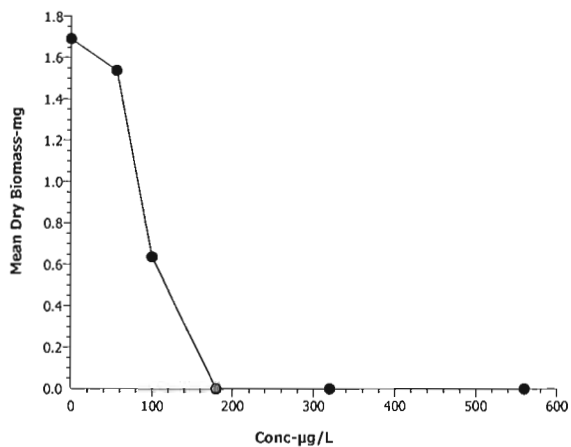
Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 13-2484-2140      Endpoint: Mean Dry Biomass-mg  
Analyzed: 21 Nov-11 15:23      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics



# CETIS Analytical Report

Report Date: 21 Nov-11 15:23 (p 3 of 4)  
 Test Code: 16-4122-4366/TOPS100511tops

Pacific Topsmelt 7-d Survival and Growth Test				Aquatic Bioassay & Consulting Labs, Inc.			
Analysis ID:	15-4869-8056	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.7.0		
Analyzed:	21 Nov-11 15:23	Analysis:	Linear Interpolation (ICPIN)	Official Results:	Yes		
Batch ID:	11-2277-4923	Test Type:	Growth-Survival (7d)	Analyst:			
Start Date:	05 Oct-11 15:50	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater		
Ending Date:	12 Oct-11 16:00	Species:	Atherinops affinis	Brine:	Not Applicable		
Duration:	7d 0h	Source:	Aquatic Biosystems, CO	Age:			
Sample ID:	08-6338-9857	Code:	TOPS100511	Client:	ABC Labs		
Sample Date:	05 Oct-11 15:00	Material:	Copper chloride	Project:	REF TOX		
Receive Date:	05 Oct-11 15:00	Source:	Reference Toxicant				
Sample Age:	50m	Station:	REF TOX				

Linear Interpolation Options					
X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2895625	280	Yes	Two-Point Interpolation

Test Acceptability				
Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.8 - NL	Yes	Result Within Limits

Point Estimates			
Level	µg/L	95% LCL	95% UCL
EC5	33.6	1.91E-06	73.8
EC10	57.35	4.923	68.52
EC15	61.42	19.69	73.09
EC20	65.48	34.46	78.24
EC25	69.54	49.23	82.95
EC40	81.72	68.34	97.41
EC50	89.85	77.58	110.1

7d Survival Rate Summary			Calculated Variate(A/B)								
Conc-µg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	5	0.96	0.8	1	0.01633	0.08944	9.32%	0.0%	24	25
56		5	0.88	0.6	1	0.03266	0.1789	20.33%	8.33%	22	25
100		5	0.36	0.2	0.6	0.03055	0.1673	46.48%	62.5%	9	25
180		5	0	0	0	0	0		100.0%	0	25
320		5	0	0	0	0	0		100.0%	0	25
560		5	0	0	0	0	0		100.0%	0	25

7d Survival Rate Detail						
Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	0.8	1
56		1	1	0.6	0.8	1
100		0.4	0.2	0.6	0.2	0.4
180		0	0	0	0	0
320		0	0	0	0	0
560		0	0	0	0	0

# CETIS Analytical Report

Report Date: 21 Nov-11 15:23 (p 4 of 4)  
Test Code: 16-4122-4366/TOPS100511tops

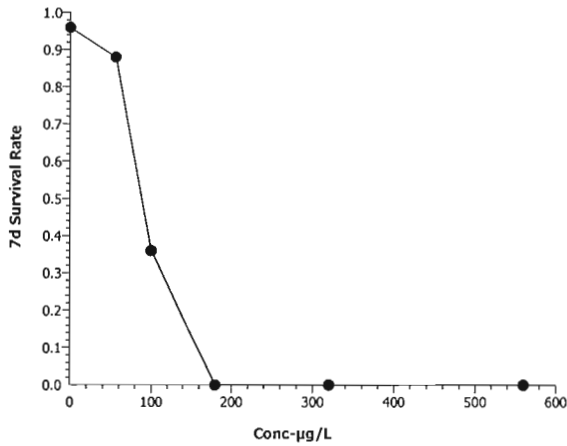
Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 15-4869-8056      Endpoint: 7d Survival Rate  
Analyzed: 21 Nov-11 15:23      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.7.0  
Official Results: Yes

## Graphics





# CETIS Measurement Report

Report Date: 21 Nov-11 15:23 (p 1 of 2)  
 Test Code: 16-4122-4366/TOPS100511tops

## Pacific Topsmelt 7-d Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 11-2277-4923	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 05 Oct-11 15:50	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 12 Oct-11 16:00	Species: Atherinops affinis	Brine: Not Applicable
Duration: 7d 0h	Source: Aquatic Biosystems, CO	Age:
Sample ID: 08-6338-9857	Code: TOPS100511	Client: ABC Labs
Sample Date: 05 Oct-11 15:00	Material: Copper chloride	Project: REF TOX
Receive Date: 05 Oct-11 15:00	Source: Reference Toxicant	
Sample Age: 50m	Station: REF TOX	

### Dissolved Oxygen-mg/L

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	6.438	6.273	6.602	5.8	7	0.08113	0.4868	7.56%	0
56		8	6.413	6.137	6.688	5.7	8.2	0.1355	0.8132	12.68%	0
100		8	6.263	6.106	6.419	5.7	7	0.07712	0.4627	7.39%	0
180		8	6.188	6.063	6.312	5.7	6.9	0.06136	0.3682	5.95%	0
320		8	6.225	6.095	6.355	5.7	6.9	0.06409	0.3845	6.18%	0
560		8	6.263	6.13	6.395	5.7	6.9	0.06543	0.3926	6.27%	0
Overall		48	6.298			5.7	8.2				0 (0%)

### Total Ammonia (N)-mg/L

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	0			0	0	0	0		0
560		1	0			0	0	0	0		0
Overall		2	0			0	0				0 (0%)

### pH-Units

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.8	7.782	7.818	7.7	7.9	0.00891	0.05346	0.69%	0
56		8	7.8	7.8	7.8	7.8	7.8	0	0	0.0%	0
100		8	7.8	7.8	7.8	7.8	7.8	0	0	0.0%	0
180		8	7.713	7.701	7.724	7.7	7.8	0.005893	0.03536	0.46%	0
320		8	7.8	7.8	7.8	7.8	7.8	0	0	0.0%	0
560		8	7.8	7.8	7.8	7.8	7.8	0	0	0.0%	0
Overall		48	7.785			7.7	7.9				0 (0%)

### Salinity-ppt

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	34	34	34	34	34	0	0	0.0%	0
56		8	34	34	34	34	34	0	0	0.0%	0
100		8	34	34	34	34	34	0	0	0.0%	0
180		8	34	34	34	34	34	0	0	0.0%	0
320		8	34	34	34	34	34	0	0	0.0%	0
560		8	34	34	34	34	34	0	0	0.0%	0
Overall		48	34			34	34				0 (0%)

### Temperature-°C

Conc-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	21	21	21	21	21	0	0	0.0%	0
56		8	21	21	21	21	21	0	0	0.0%	0
100		8	21	21	21	21	21	0	0	0.0%	0
180		8	21	21	21	21	21	0	0	0.0%	0
320		8	21	21	21	21	21	0	0	0.0%	0
560		8	21	21	21	21	21	0	0	0.0%	0
Overall		48	21			21	21				0 (0%)





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season**  
**Toxicity - ABC Laboratories**

Sampling Date: \_\_\_\_\_ Project Number: 2010/11-1 (Wet) \_\_\_\_\_

Sampling Team: \_\_\_\_\_

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt ( <i>Atherinops affinis</i> )	Chronic toxicity - inland silverside ( <i>Menidia beryllina</i> )	Chronic toxicity - giant kelp ( <i>Macrocystis pyrifera</i> )	Chronic toxicity - purple sea urchin ( <i>Strongylocentrotus purpuratus</i> )	Chronic toxicity - fathead minnow ( <i>Pimephales promelas</i> )	Chronic toxicity - daphnid ( <i>Ceriodaphnia dubia</i> )	Chronic toxicity - green alga ( <i>Raphidocelis subcapitata</i> )	Number of 5-Gallon Buckets	NOTES
MO-OXN	10-5-11 06:55					X			2	Note 1, Note 2, Note 3
MO-HUE	10-5-11 09:15						X		2	Note 1, Note 2, Note 3
<del>MO-THO</del>							X		2	Note 1, Note 2, Note 3
<del>MO-MPK</del>								X	2	Note 1, Note 2, Note 3
<del>MO-SIM</del>							X		2	Note 1, Note 2, Note 3
<del>MO-FIL</del>							X		2	Note 1, Note 2, Note 3
<del>MO-SPA</del>						X			2	Note 1, Note 2, Note 3

063  
064

Relinquished Printed Name \_\_\_\_\_  
 Signature \_\_\_\_\_  
 Affiliation \_\_\_\_\_ Date/Time \_\_\_\_\_

Received Printed Name \_\_\_\_\_  
 Signature \_\_\_\_\_  
 Affiliation \_\_\_\_\_ Date/Time \_\_\_\_\_

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%  
 Note 2: Please execute TIE if mortality > 50%  
 Note 3: Notify District within 24 hours if significant toxicity is observed.



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season**  
**Toxicity - ABC Laboratories**

Sampling Date: 10-5-11 Project Number: 2010/11-1 (Wet)  
 Sampling Team: AEA & PC

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt ( <i>Atherinops affinis</i> )	Chronic toxicity - inland silverside ( <i>Menidia beryllina</i> )	Chronic toxicity - giant kelp ( <i>Macrocystis pyrifera</i> )	Chronic toxicity - purple sea urchin ( <i>Strongylocentrotus purpuratus</i> )	Chronic toxicity - fathead minnow ( <i>Pimephales promelas</i> )	Chronic toxicity - daphnid ( <i>Ceriodaphnia dubia</i> )	Chronic toxicity - green alga ( <i>Raphidocelis subcapitata</i> )	Number of 5-Gallon Buckets	NOTES
ME-CC	10-5-11 10:30	X							2	Note 1, Note 2, Note 3
ME-SCR	10-5-11 1300				X				1	Note 1, Note 2, Note 3
<del>ME-VR2</del>		X							2	Note 1, Note 2, Note 3
MO-CAM	10-5-11 07:45					X			2	Note 1, Note 2, Note 3
<del>MO-OJA</del>						X			2	Note 1, Note 2, Note 3
<del>MO-MEI</del>						X			2	Note 1, Note 2, Note 3
<del>MO-VEN</del>							X		2	Note 1, Note 2, Note 3

Relinquished Printed Name: ARNE ANSCUM  
 Signature: [Signature]  
 Affiliation: VCWPD Date/Time: 10-5-11

Received Printed Name: Janet Patrick  
 Signature: [Signature]  
 Affiliation: VCWPD Date/Time: 10-5-11 14:29

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 50%  
Note 3: Notify District within 24 hours if significant toxicity is observed.



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season**  
**Toxicity - ABC Laboratories**

Sampling Date: 10-05-11

Project Number: 2010/11-1 (Wet)

Sampling Team: D. THOMAS J. SIEBERT

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt ( <i>Atherinops affinis</i> )	Chronic toxicity - inland silverside ( <i>Menidia beryllina</i> )	Chronic toxicity - giant kelp ( <i>Macrocystis pyrifera</i> )	Chronic toxicity - purple sea urchin ( <i>Strongylocentrotus purpuratus</i> )	Chronic toxicity - fathead minnow ( <i>Pimephales promelas</i> )	Chronic toxicity - daphnid ( <i>Ceriodaphnia dubia</i> )	Chronic toxicity - green alga ( <i>Raphidocelis subcapitata</i> )	Number of 5-Gallon Buckets	NOTES
MO-OXN						X			2	Note 1, Note 2, Note 3
MO-HUE							X		2	Note 1, Note 2, Note 3
MO-THO	10-05-11 10:30						X		2	Note 1, Note 2, Note 3
MO-MPK	10-05-11 08:30							X	2	Note 1, Note 2, Note 3
MO-SIM	10-05-11 09:15						X		2	Note 1, Note 2, Note 3
MO-FIL	10-05-11 07:15						X		2	Note 1, Note 2, Note 3
MO-SPA	10-05-11 05:15					X			2	Note 1, Note 2, Note 3

055  
 056  
 057  
 058  
 059  
 062

Relinquished Printed Name DAVID THOMAS  
 Signature [Signature]  
 Affiliation WCSO/VE WPD Date/Time 10-05-11 12:15

Received Printed Name ELIZABETH MATWIKI  
 Signature [Signature]  
 Affiliation AQUATIC BIOLASSAY Date/Time 10-5-11 1025

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%  
Note 2: Please execute TIE if mortality > 50%  
Note 3: Notify District within 24 hours if significant toxicity is observed.





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season**  
**Toxicity - ABC Laboratories**

Sampling Date: 10-5-11 Project Number: 2010/11-1 (Wet)

Sampling Team: K. HAHS, C. STEPHENS

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt ( <i>Atherinops affinis</i> )	Chronic toxicity - inland silverside ( <i>Menidia beryllina</i> )	Chronic toxicity - giant kelp ( <i>Macrocystis pyrifera</i> )	Chronic toxicity - purple sea urchin ( <i>Strongylocentrotus purpuratus</i> )	Chronic toxicity - fathead minnow ( <i>Pimephales promelas</i> )	Chronic toxicity - daphnid ( <i>Ceriodaphnia dubia</i> )	Chronic toxicity - green alga ( <i>Raphidocelis subcapitata</i> )	Number of 5-Gallon Buckets	NOTES
<del>ME-CC</del>		X							2	<del>Note 1, Note 2, Note 3</del>
<del>ME-SCR</del>					X				1	<del>Note 1, Note 2, Note 3</del>
ME-VR2	10-5-11 10:05 AM	X							2	Note 1, Note 2, Note 3 0790
<del>MO-CAM</del>						X			2	<del>Note 1, Note 2, Note 3</del>
MO-OJA	10-5-11 9 AM					X			2	Note 1, Note 2, Note 3 0500
<del>MO-MEI</del> MO-MEI	10-5-11 8 AM					X			2	Note 1, Note 2, Note 3 0510
<del>MO-VEN</del> MO-VEN	10-5-11 6:30 AM						X		2	Note 1, Note 2, Note 3 0520

Relinquished Printed Name KELLY HAHS  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 10/5/11 11:25 am

Received Printed Name ELIZABETH MATUANGI  
 Signature [Signature]  
 Affiliation ARMATIC BIOASSAY Date/Time 10-5-11 / 11:25

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 50%  
 Note 3: Notify District within 24 hours if significant toxicity is observed.

## **Appendix J. Dry-Weather Analytical Monitoring Results**

	Site ID	Port Hueneme-3	Santa Paula-2	Unincorporated-2
		DRY-HUE3	DRY-SPA2	DRY-UNI2
	At Major Outfall?	No	No	No
	Location	Bubbling Springs @ RR xing	Fagan Canyon 100 yds. d/s Harvard Blvd.	MCW-12 Medea Creek @ Tamarind
	Date	08/15/12	08/15/12	08/16/12
	Time	1210	945	1020
Site Description	Conveyence Type	Natural channel	Box culvert	Natural channel
	Dimensions	N/A	20' x 65'	N/A
	Dominant Land Use	Commercial & residential	Commercial & residential	Residential & rural
	Site Elevation	10	250	1000
Weather	Weather	Partly cloudy	Clear	Clear
	Wind Condition	Moderate breeze	Moderate breeze	Calm
	Air Temp. (°F)	73	68	79
Trash	Trash (general area)	Light	Light	None
	Trash (stream banks)	Moderate	Light	Light
Observations	Water Clarity	Muddy	Clear	Clear
	Water Color	Clear	Clear	Clear
	Odors	None	None	Musty
	Floatables	None	None	Sheen
	Foam	N/A	N/A	N/A
	Stains/ deposits	N/A	N/A	White mineralization above water line
	Structural condition	Natural channel	Concrete channel	Rip-rap with natural bottom
	Vegetation Condition	Lawns surrounding channel	N/A	Minimal veg. Area maintained/weeds treated regularly with herbicide
	Biology	Many ducks	N/A	butterflies and dragon flies
	Algae (suspended)	N/A	N/A	Green 5%
Algae (substrate)	N/A	N/A	Brown 30% Green 50%	
Water Chemistry (Field)	Dissolved Oxygen (%)	45.2	106.0	151.5
	Dissolved Oxygen (mg/L)	3.89	9.22	12.21
	Conductivity (µS)	2187	1531	93.7
	Specific Conductance (µS)	2430	1607	91.9
	Salinity (ppt)	1.3	0.8	0.0
	Water Temp. (°C)	21.2	22.5	26.3
	Water Temp. (°F)			
	pH	7.6	8.22	7.86
Turbidity (NTU)	16.17	5.00	3.48	
Water Chemistry (Lab)	Total Organic Carbon (mg/L)	5.0	2	5
	Total Hardness as CaCO <sub>3</sub> (mg/L)	750	530	570
	Total Calcium (mg/L)	190	150	120
	Total Magnesium (mg/L)	65	41	63
	Dissolved Copper (µg/L)	ND (<0.27)	1	2
	Dissolved Lead (µg/L)	ND (<0.011)	ND (<0.011)	DNQ ( 0.020)
	Dissolved Zinc (µg/L)	DNQ (2.5)	DNQ (4.8)	DNQ (2.5)
	Total Coliform (MPN/100 mL)	27,800	41,000	344,800
<i>E. coli</i> (MPN/100 mL)	9,804	63	281	
Estimated Flow	Flow Status	Flowing	Flowing	Flowing
	Water Width (ft.)	10.0	8.0	3.5
	Water Depth (ft.)	1.20	0.10	0.06
	Flow Velocity (ft/s)	0.30	0.43	0.18
	Flow Rate (ft <sup>3</sup> /s)	3.60	0.34	0.04
	Comments	Sampled upstream MO location	Samples taken 100 yds. d/s Harvard Blvd. on Fagan Canyon	limited flow, downstream murky



	Site ID	Camarillo-1	Fillmore-1	Moorpark-1
		MO-CAM	MO-FIL	MO-MPK
	At Major Outfall?	Yes	Yes	Yes
	Location	Camarillo Hills Drain	North Fillmore Drain	Gabbert Drain
	Date	08/16/12	08/15/12	08/16/12
	Time	1020	0915	810
Site Description	Conveyence Type	Box culvert	Box culvert	Box culvert
	Dimensions	8' x 20'	N/A	5' x 12'
	Dominant Land Use	Commercial & residential	Residential	Commercial & residential
	Site Elevation	100	430	460
Weather	Weather	Clear	Clear	Clear
	Wind Condition	Calm	Calm	Calm
	Air Temp. (°F)	79	73	66
Trash	Trash (general area)	Light	Light	Light
	Trash (stream banks)	Light	Moderate	Light
Observations	Water Clarity	Clear	Clear	Clear
	Water Color	Clear	Clear	Clear
	Odors	None	None	None
	Floatables	None	None	None
	Foam	N/A	N/A	N/A
	Stains/ deposits	Leaves	Mineralization above water line	N/A
	Structural condition	Concrete channel	Natural channel below flap gate	Concrete channel
	Vegetation Condition	N/A	Dense cattails and willows	N/A
	Biology	N/A	N/A	N/A
	Algae (suspended)	N/A	N/A	N/A
Water Chemistry (Field)	Algae (substrate)	Green 80%	N/A	N/A
	Dissolved Oxygen (%)	164.1	52.2	88.0
	Dissolved Oxygen (mg/L)	12.86	4.52	8.29
	Conductivity (µS)	1670	1493	939
	Specific Conductance (µS)	1599	1615	1091
	Salinity (ppt)	0.8	0.8	0.5
	Water Temp. (°C)	27.2	21.1	18.1
	Water Temp. (°F)			
	pH	9.02	7.81	8.48
	Turbidity (NTU)	56.77	2.45	3.96
Water Chemistry (Lab)	Total Organic Carbon (mg/L)	23.0	3	21.0
	Total Hardness as CaCO <sub>3</sub> (mg/L)	360	680	240
	Total Calcium (mg/L)	95	180	60
	Total Magnesium (mg/L)	29	57	21
	Dissolved Copper (µg/L)	99.00	3	6.5
	Dissolved Lead (µg/L)	DNQ (0.120)	DNQ (0.070)	DNQ (0.19)
	Dissolved Zinc (µg/L)	8.2	6.2	6.6
	Total Coliform (MPN/100 mL)	613,100	107,600	1,046,200
<i>E. coli</i> (MPN/100 mL)	19,863	1,850	2,909	
Estimated Flow	Flow Status	Flowing	Flowing	Flowing
	Water Width (ft.)	3.0	15.0	3.0
	Water Depth (ft.)	0.01	3.00	0.01
	Flow Velocity (ft/s)	0.75	0.02	0.50
	Flow Rate (ft <sup>3</sup> /s)	0.02	0.90	0.02
	Comments	pH measured twice (9.01, 9.02)	Congested willow and cattail growth in channel	pH measured twice (8.46, 8.49)

	Site ID	Ojai-1	Oxnard-1	Simi Valley-1
		MO-OJA	MO-OXN	MO-SIM
	At Major Outfall?	Yes	Yes	Yes
	Location	Fox Barranca	El Rio Drain at MO-OXN because not flowing below Ventura Rd.	Bus Canyon Drain
	Date	08/15/12	08/15/12	08/16/12
	Time	0750	1130	855
Site Description	Conveyence Type	Box culvert	Trapezoidal channel	Box culvert
	Dimensions	N/A	N/A	7' x 15'
	Dominant Land Use	Residential	Commercial & residential	Commercial & residential
	Site Elevation	720	60	760
Weather	Weather	Clear	Clear	Clear
	Wind Condition	Calm	Slight breeze	Calm
	Air Temp. (°F)	71	78	74
Trash	Trash (general area)	Light	Moderate	Moderate
	Trash (stream banks)	Moderate	Moderate	Light
Observations	Water Clarity	Clear	Clear	Clear
	Water Color	Clear	Clear	Clear
	Odors	None	None	None
	Floatables	None	None	None
	Foam	N/A	N/A	N/A
	Stains/ deposits	N/A	N/A	N/A
	Structural condition	Concrete channel	Concrete channel	Concrete channel
	Vegetation Condition	Invasives - english ivy, mexican pepper	Some grasses in channel	N/A
	Biology	N/A	N/A	N/A
	Algae (suspended)	N/A	N/A	N/A
Water Chemistry (Field)	Algae (substrate)	N/A	Brown 20%	Green 100%
	Dissolved Oxygen (%)	111.5	167.0	104.5
	Dissolved Oxygen (mg/L)	10.07	12.60	9.36
	Conductivity (µS)	1581	1384	2565
	Specific Conductance (µS)	1738	1328	2810
	Salinity (ppt)	0.9	0.7	1.4
	Water Temp. (°C)	20.2	30.2	20.3
	Water Temp. (°F)			
	pH	8.19	8.64	7.97
	Turbidity (NTU)	0.86	7.15	1.40
Water Chemistry (Lab)	Total Organic Carbon (mg/L)	3	15.0	2.5
	Total Hardness as CaCO <sub>3</sub> (mg/L)	580	430	1,200
	Total Calcium (mg/L)	110	100	300
	Total Magnesium (mg/L)	74	42	110
	Dissolved Copper (µg/L)	0.7	24.0	DNQ (0.37)
	Dissolved Lead (µg/L)	ND (<0.011)	DNQ (0.13)	DNQ (0.020)
	Dissolved Zinc (µg/L)	DNQ (2.7)	16.0	DNQ (1.9)
	Total Coliform (MPN/100 mL)	32,800	172,300	7,701
<i>E. coli</i> (MPN/100 mL)	650	2,142	1,616	
Estimated Flow	Flow Status	Flowing	Flowing	Flowing
	Water Width (ft.)	3.5	12.0	7.0
	Water Depth (ft.)	0.01	0.60	0.04
	Flow Velocity (ft/s)	0.88	0.34	2.44
	Flow Rate (ft <sup>3</sup> /s)	0.03	2.45	0.68
Comments	Samples taken @ access gate (no flowing contributions within 100 m ds)	pH measured twice (8.63, 8.64)		

	Site ID	Thousand Oaks-1	Ventura-1
		MO-THO	MO-VEN
	At Major Outfall?	Yes	Yes
	Location	Hill Canyon WWTP	Moon Ditch
	Date	08/16/12	08/15/12
	Time	940	1030
Site Description	Conveyence Type	Natural channel	Trapezoidal channel
	Dimensions	N/A	N/A
	Dominant Land Use	Commercial, residential & rural	Commercial & residential
	Site Elevation	280	70
Weather	Weather	Clear	Clear
	Wind Condition	Calm	Slight breeze
	Air Temp. (°F)	80	72
Trash	Trash (general area)	None	Light
	Trash (stream banks)	None	Moderate
Observations	Water Clarity	Clear	Clear
	Water Color	Clear	Clear
	Odors	None	None
	Floatables	None	None
	Foam	N/A	N/A
	Stains/ deposits	N/A	Pinkish-orange tinge to concrete/algae
	Structural condition	Rip-rap with natural bottom	Concrete channel
	Vegetation Condition	Healthy	Some grasses, reeds in concrete joins in channel
	Biology	Ducks	N/A
	Algae (suspended)	N/A	N/A
Water Chemistry (Field)	Algae (substrate)	N/A	Orange 70%
	Dissolved Oxygen (%)	91.4	101.3
	Dissolved Oxygen (mg/L)	8.36	7.40
	Conductivity (µS)	1734	8180
	Specific Conductance (µS)	1943	8120
	Salinity (ppt)	1.0	4.5
	Water Temp. (°C)	19.4	29.2
	Water Temp. (°F)		
	pH	8.24	8.76
	Turbidity (NTU)	1.13	12.63
Water Chemistry (Lab)	Total Organic Carbon (mg/L)	3.2	63.0
	Total Hardness as CaCO <sub>3</sub> (mg/L)	670	1,900
	Total Calcium (mg/L)	97	310
	Total Magnesium (mg/L)	100	270
	Dissolved Copper (µg/L)	0.59	87.00
	Dissolved Lead (µg/L)	ND (<0.011)	1.00
	Dissolved Zinc (µg/L)	DNQ (2.2)	18.0
	Total Coliform (MPN/100 mL)	24,192	>2,419,200
<i>E. coli</i> (MPN/100 mL)	20	10	
Estimated Flow	Flow Status	Flowing	Flowing
	Water Width (ft.)	-	6.0
	Water Depth (ft.)	-	0.01
	Flow Velocity (ft/s)	-	0.25
	Flow Rate (ft <sup>3</sup> /s)	1.00	0.02
	Comments	Flow from 4230	pH measured twice (8.74, 8.77)