

## **Appendix A: Major Outfall Station Fact Sheets (Updated 2019)**

## Camarillo

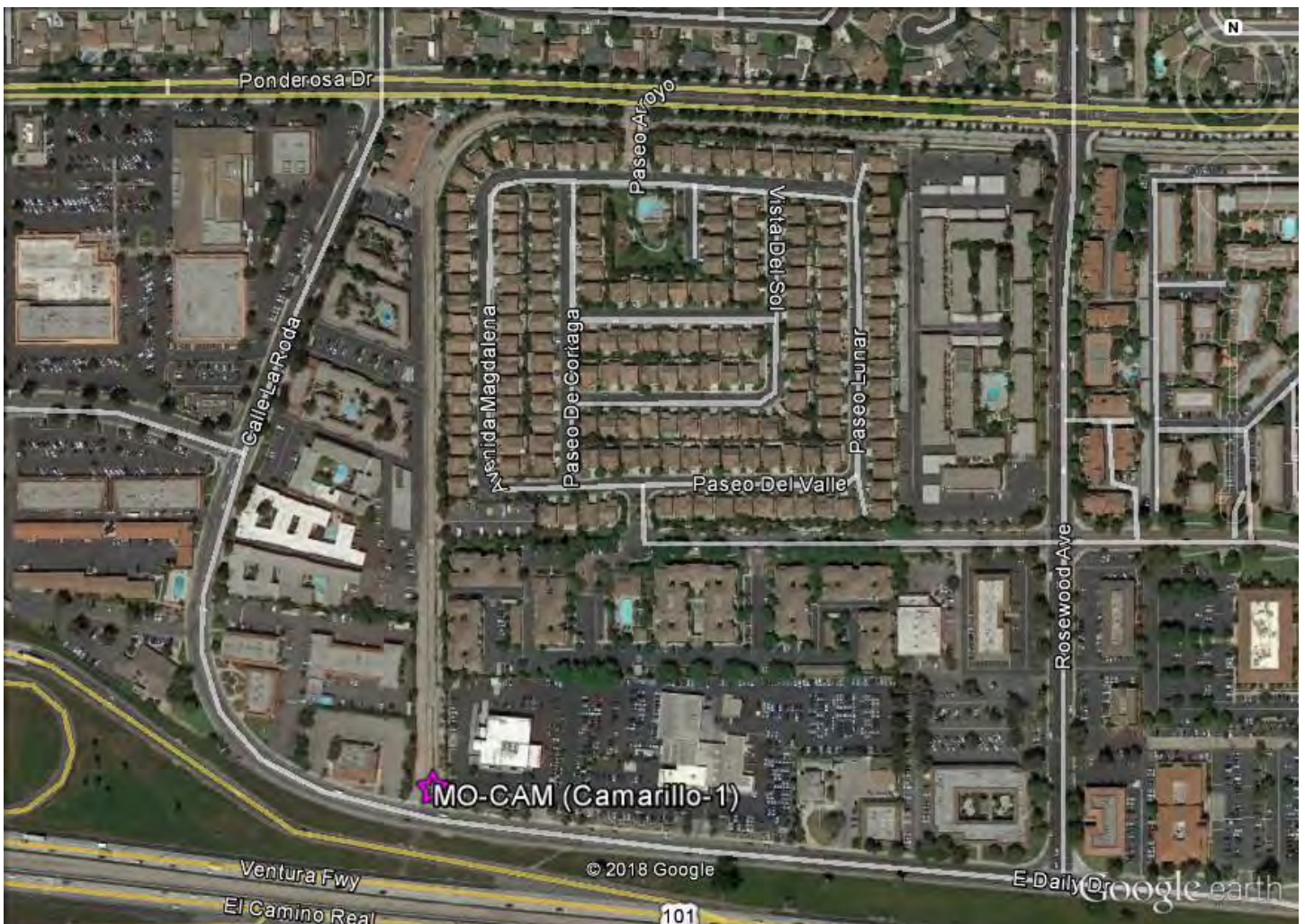
**Station:** MO-CAM (Camarillo-1)

**Waterbody:** Camarillo Hills Drain (tributary to Revolon Slough)

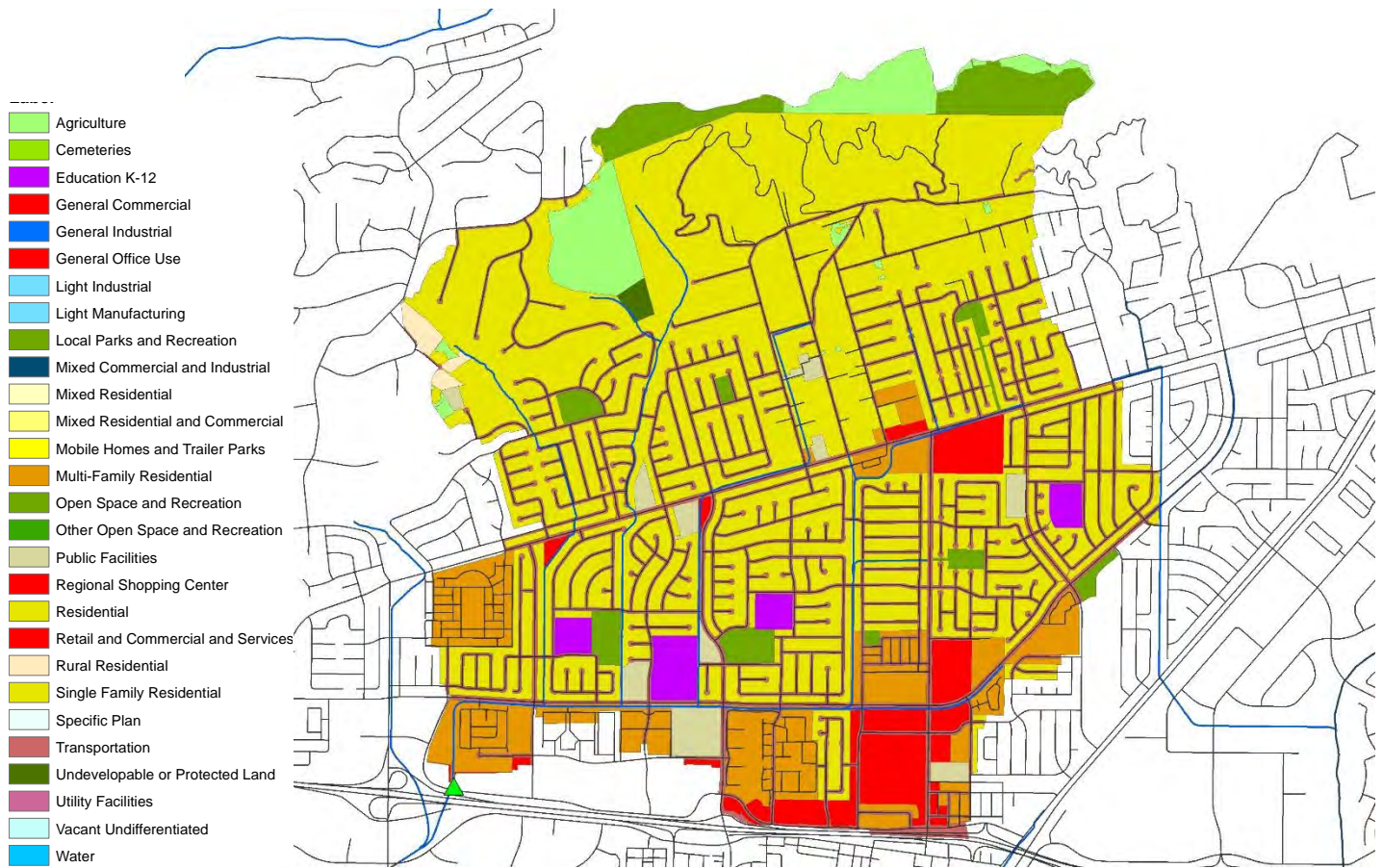
**Location:** Daily Rd. overcrossing (34°13'10.40"N, 119° 3'58.00"W)

**Known Issues:** None

**Dry Season Flow:** Low flow typically present year-round in dry weather due to urban runoff.







**Entire City**

Land Use	Acres	% of Total Watershed
Agriculture	1358.6	10.7%
Education K-12	202.0	1.6%
General Office Use	73.8	0.6%
Light Industrial	950.1	7.5%
Local Parks and Recreation	230.4	1.8%
Mixed Commercial and Industrial	7.2	0.1%
Mobile Homes and Trailer Parks	137.4	1.1%
Multi-Family Residential	1521.5	12.0%
Open Space and Recreation	3.0	0.02%
Public Facilities	454.7	3.6%
Retail and Commercial and Services	479.4	3.8%
Rural Residential	18.9	0.1%
Single Family Residential	3814.3	30.2%
Transportation	2581.6	20.4%
Undevelopable or Protected Land	461.8	3.7%
Utility Facilities	353.5	2.8%
<b>Totals</b>	<b>12648.2</b>	<b>100.0%</b>

**Selected Subwatershed**

Land Use	Acres	% of Total Watershed
Agriculture	109.8	3.9%
Education K-12	47.6	1.7%
General Office Use	9.4	0.3%
Local Parks and Recreation	48.9	1.7%
Multi-Family Residential	272.9	9.6%
Open Space and Recreation	74.5	2.6%
Public Facilities	58.2	2.1%
Retail and Commercial and Services	118.3	4.2%
Rural Residential	12.1	0.4%
Single Family Residential	1598.2	56.5%
Transportation	468.4	16.5%
Undevelopable or Protected Land	6.4	0.2%
Utility Facilities	6.0	0.2%
<b>Totals</b>	<b>2830.7</b>	<b>100.0%</b>



## Fillmore

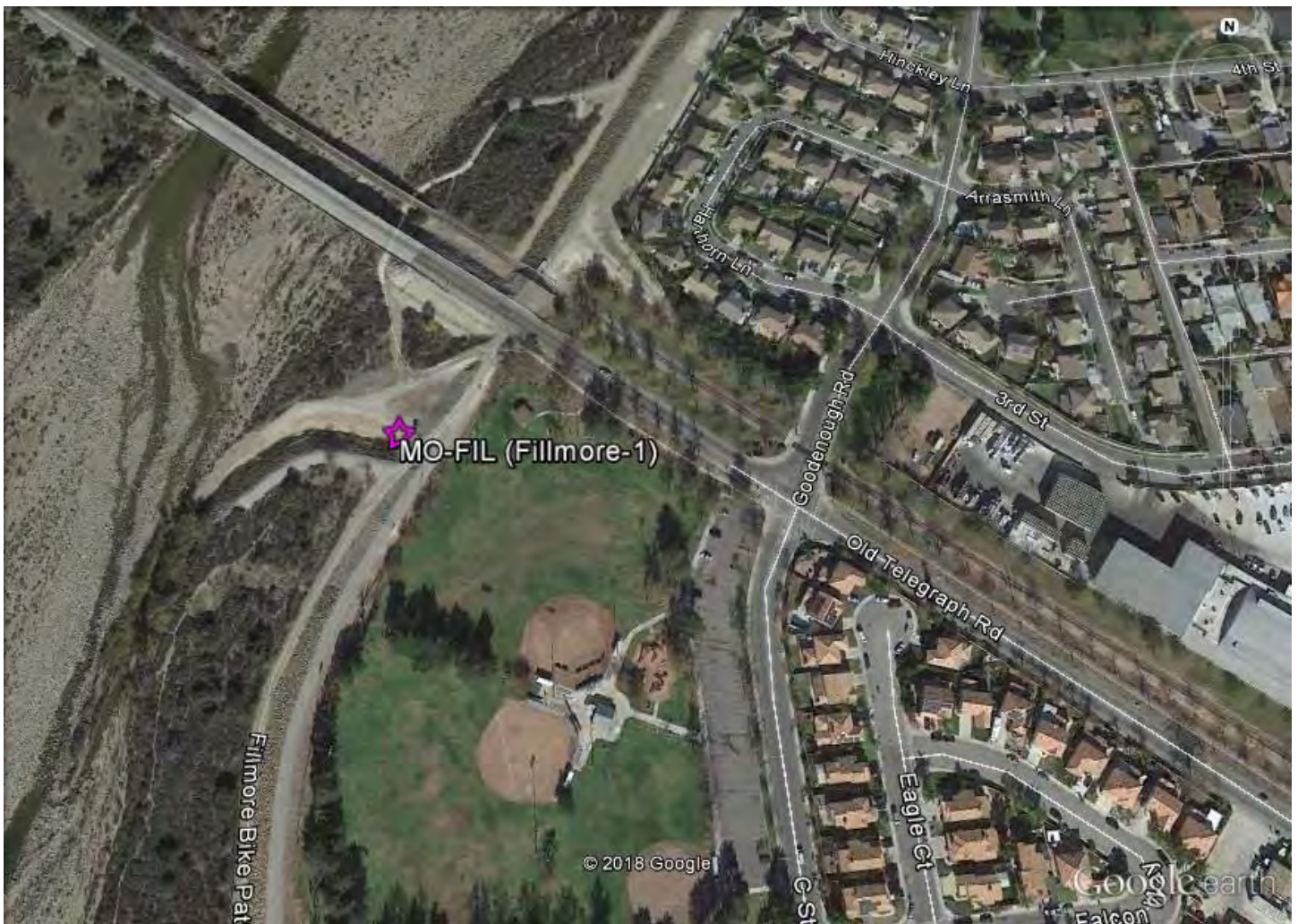
**Station:** MO-FIL (Fillmore-1)

**Waterbody:** North Fillmore Drain (tributary to Sespe Creek)

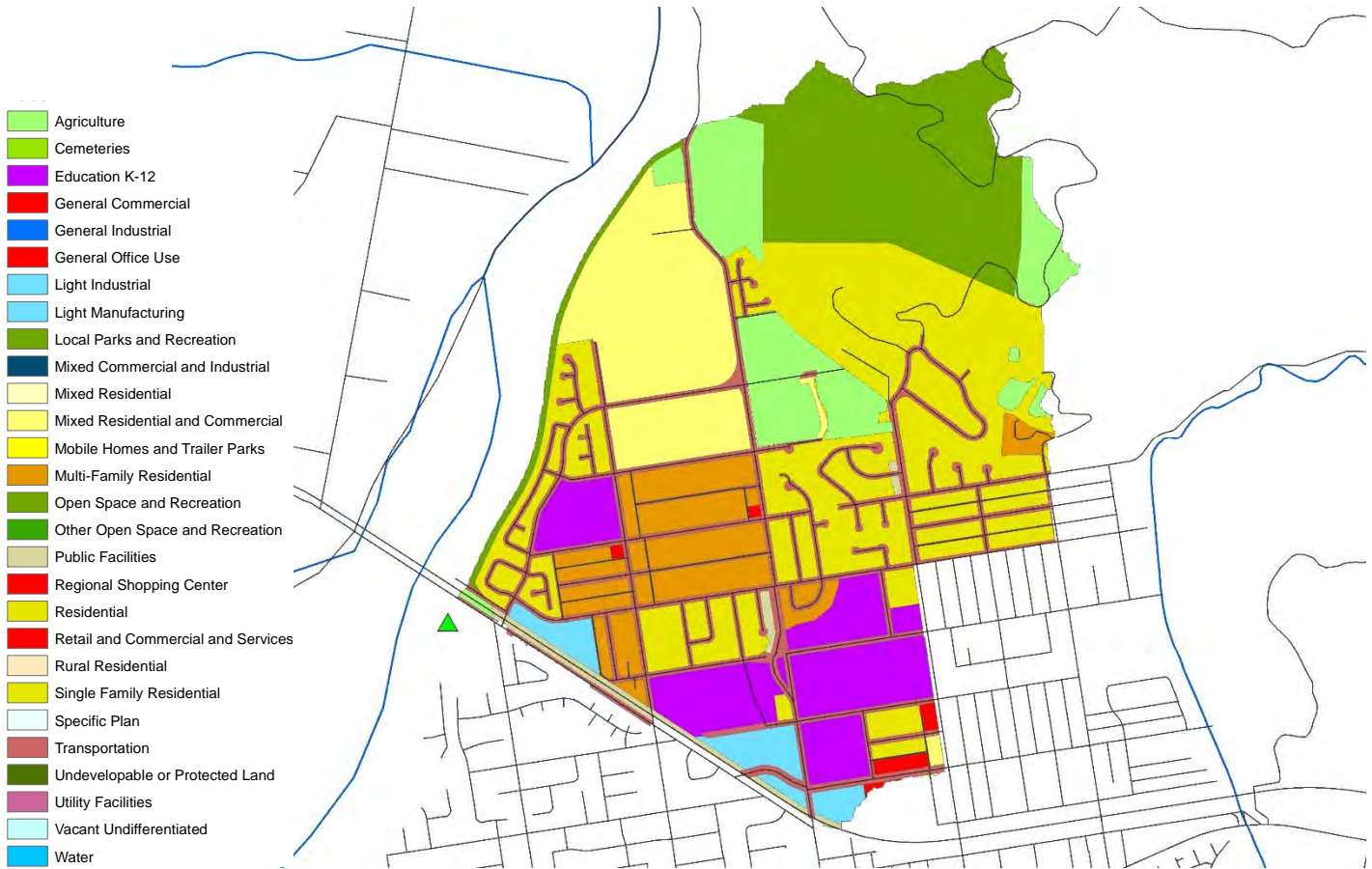
**Location:** 75 yds. southwest of Old Telegraph Rd.  
(34°24'16.70"N, 118°55'50.80"W)

**Known Issues:** Sediment build up around intake

**Dry Season Flow Potential:** Typically year-round low flow due to urban runoff







### Entire City

Land Use	Acres	% of Total Watershed
Agriculture	140.9	6.7%
Education K-12	81.9	3.9%
General Commercial	108.2	5.1%
General Industrial	2.1	0.1%
Light Industrial	132.5	6.3%
Local Parks and Recreation	70.7	3.3%
Mixed Residential and Commercial	120.6	5.7%
Multi-Family Residential	175.7	8.3%
Open Space and Recreation	0.2	0.01%
Transportation	311.5	14.8%
Public Facilities	53.6	2.5%
Single Family Residential	528.4	25.0%
Specific Plan	282.7	13.4%
Undevelopable or Protected Land	102.2	4.8%
<b>Totals</b>	<b>2111.1</b>	<b>100.0%</b>

### Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	66.6	9.4%
Education K-12	69.7	9.8%
General Commercial	3.8	0.5%
Light Industrial	17.7	2.5%
Mixed Residential and Commercial	84.2	11.9%
Multi-Family Residential	58.9	8.3%
Open Space and Recreation	111.7	15.7%
Public Facilities	8.7	1.2%
Single Family Residential	197.6	27.8%
Transportation	90.6	12.8%
<b>Totals</b>	<b>709.5</b>	<b>100.0%</b>



## Meiners Oaks (Unincorporated)

**Station:** MO-MEI (Unincorporated-1)

**Waterbody:** Happy Valley Drain (tributary to Ventura River)

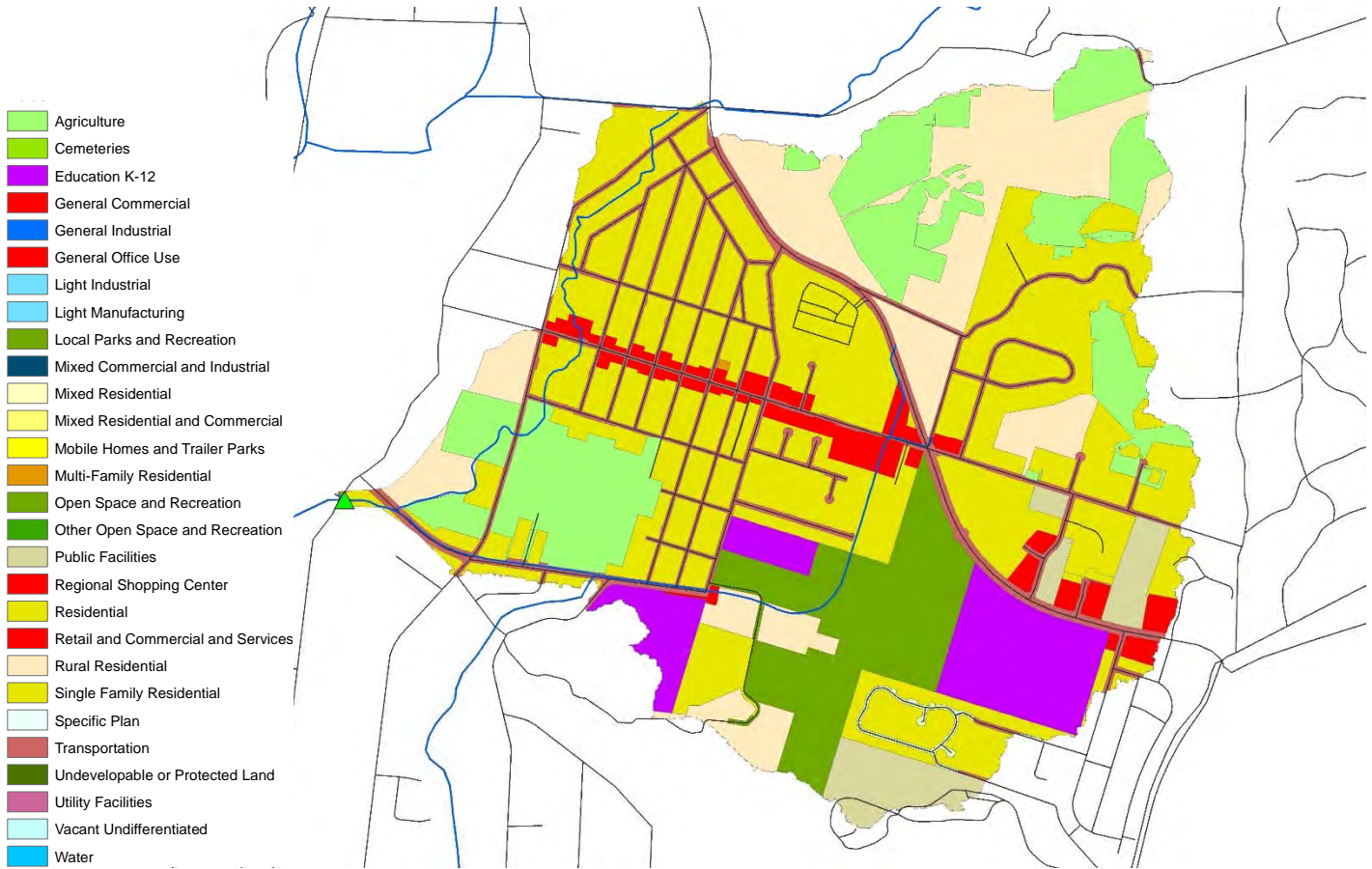
**Location:** Southwest of Lomita Rd. and Rice Rd. intersection (34°26'43.94"N, 119°17'25.15"W)

**Known Issues:** Homeless occasionally present under bridge at site.

**Dry Season Flow Potential:** Dries up quickly after storms. Typically dry during dry weather events.







**Entire City**

Land Use	Acres	% of Total Watershed
Agriculture	69.2	2.1%
Education K-12	7.4	0.2%
General Commercial	94.2	2.8%
General Industrial	323.3	9.6%
Heavy Industrial	113.1	3.4%
Multi-Family Residential	35.0	1.0%
Open Space and Recreation	118.2	3.5%
Transportation	498.4	14.9%
Rural Residential	26.8	0.8%
Single Family Residential	2063.7	61.6%
Undevelopable or Protected Land	2.4	0.1%
<b>Totals</b>	<b>3351.6</b>	<b>100.0%</b>

**Selected Subwatershed**

Land Use	Acres	% of Total Watershed
Agriculture	140.3	14.8%
Education K-12	60.0	6.3%
General Commercial	34.6	3.7%
Multi-Family Residential	0.2	0.0%
Open Space and Recreation	80.2	8.5%
Public Facilities	33.0	3.5%
Residential	0.9	0.1%
Rural Residential	139.6	14.8%
Single Family Residential	367.9	38.9%
Transportation	88.4	9.4%
<b>Totals</b>	<b>945.2</b>	<b>100.0%</b>

## Moorpark

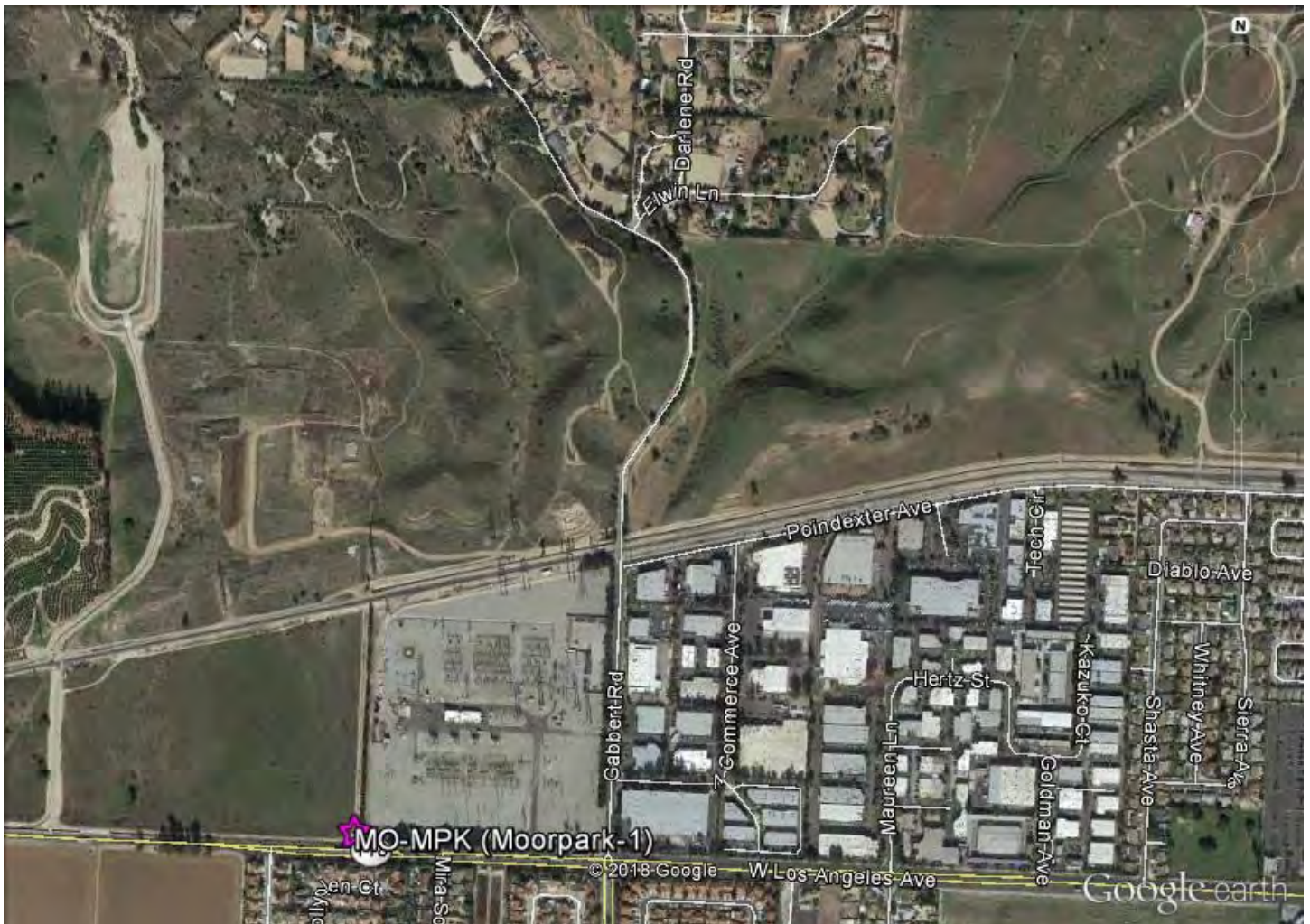
**Station:** MO-MPK (Moorpark-1)

**Waterbody:** Walnut Canyon (tributary to Arroyo Simi)

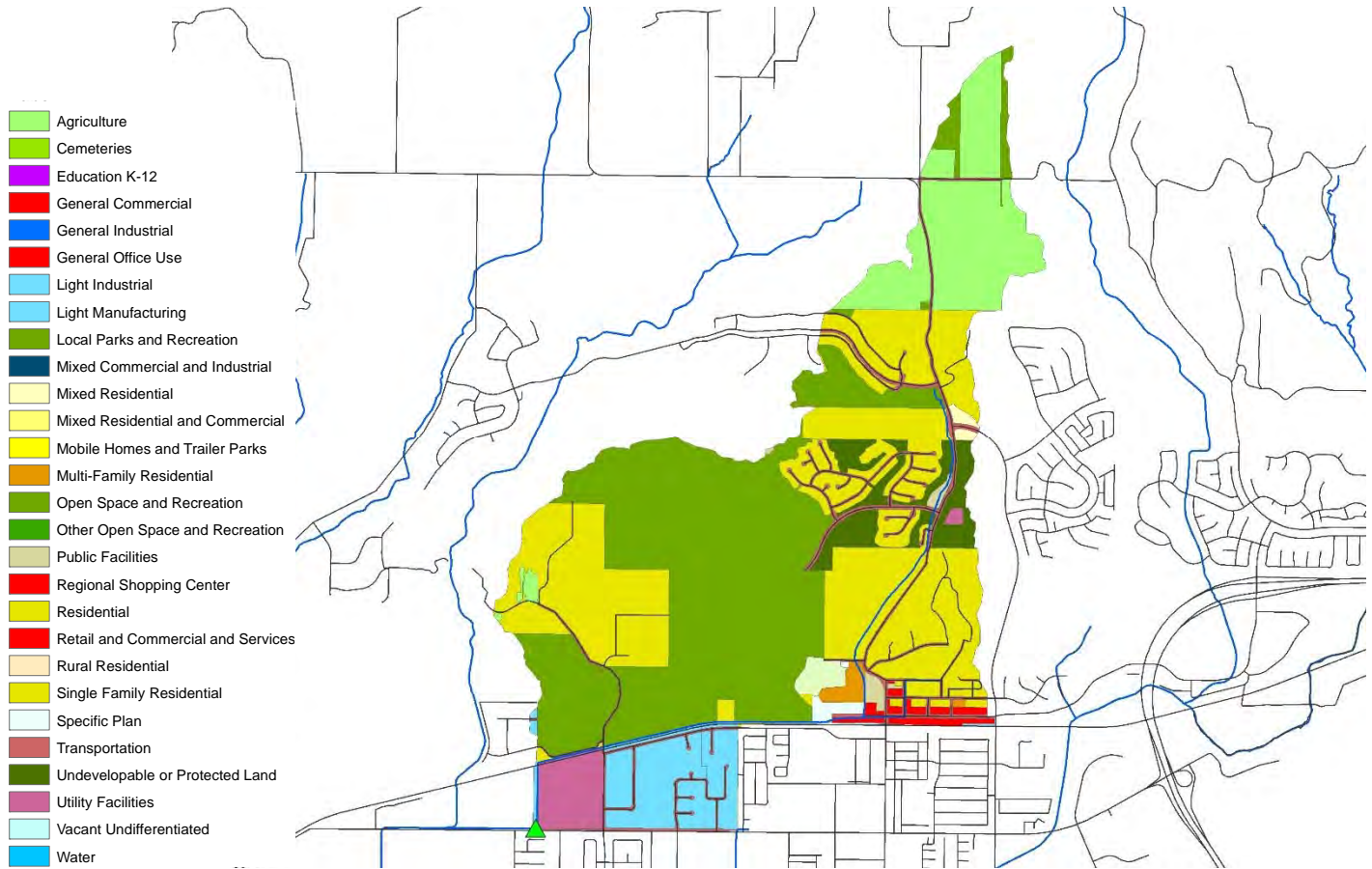
**Location:** North side of SR 118 near southwest corner of So. Cal. Edison property (34°16'44.14"N, 118°54'19.21"W)

**Known Issues:** None

**Dry Season Flow Potential:** Intermittent year-round flow due to urban runoff







### Entire City

Land Use	Acres	% of Total Watershed
Agriculture	81.1	1.0%
Education K-12	263.1	3.3%
General Commercial	158.1	2.0%
General Office Use	3.6	0.05%
Light Industrial	250.4	3.1%
Light Manufacturing	205.3	2.6%
Local Parks and Recreation	128.9	1.6%
Mixed Residential	396.0	5.0%
Mixed Residential and Commercial	450.1	5.6%
Multi-Family Residential	197.0	2.5%
Open Space and Recreation	1836.6	23.0%
Public Facilities	18.3	0.2%
Retail and Commercial and Services	7.3	0.1%
Single Family Residential	2405.6	30.1%
Specific Plan	10.0	0.1%
Transportation	1125.1	14.1%
Undevelopable or Protected Land	219.4	2.7%
Utility Facilities	47.1	0.6%
Water	178.4	2.2%
<b>Totals</b>	<b>7981.6</b>	<b>100.0%</b>

### Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	206.2	11.53%
Education K-12	13.1	0.73%
General Commercial	17.8	0.99%
General Office Use	0.5	0.03%
Light Industrial	27.9	1.56%
Light Manufacturing	82.9	4.63%
Mixed Residential	5.4	0.30%
Multi-Family Residential	11.4	0.64%
Open Space and Recreation	629.6	35.20%
Public Facilities	9.3	0.52%
Single Family Residential	561.7	31.40%
Specific Plan	8.0	0.45%
Transportation	96.4	5.39%
Undevelopable or Protected Land	71.4	3.99%
Utility Facilities	47.1	2.64%
<b>Totals</b>	<b>1788.7</b>	<b>100.0%</b>



## Ojai

**Station:** MO-OJA (Ojai-1)

**Waterbody:** Fox Canyon Barranca (tributary to San Antonio Creek)

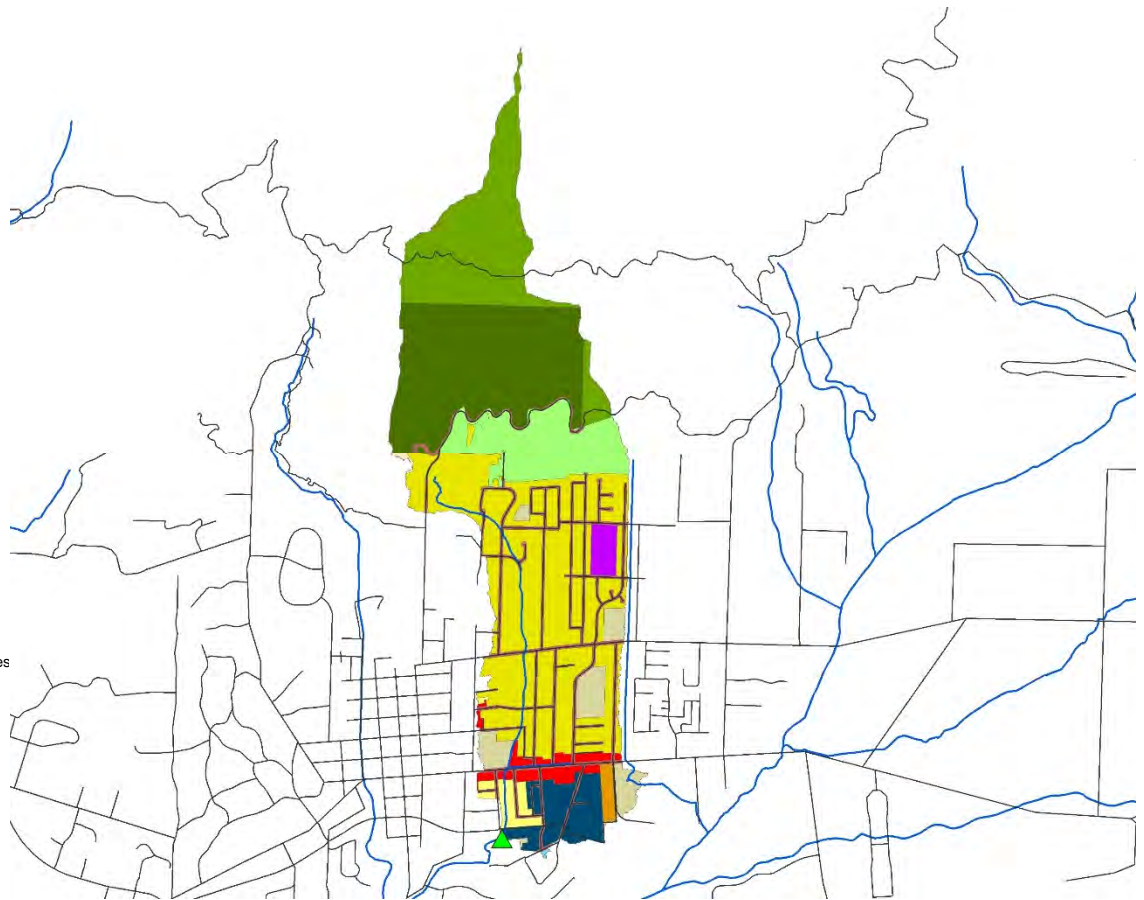
**Location:** Concrete box channel upstream Ojai Valley Athletic Club and downstream pedestrian walkway (34°26'41.26"N, 119°14'28.32"W)

**Known Issues:** Repeated discharges directly upstream of station from Ojai Valley Athletic Club swimming pool.

**Dry Season Flow Potential:** Frequently dry outside of wet season storms.







**Entire Watershed**

Land Use	Acres	% of Total Watershed
Agriculture	100.0	3.6%
Education K-12	48.5	1.7%
General Commercial	98.0	3.5%
Light Manufacturing	18.6	0.7%
Mixed Commercial and Industrial	39.7	1.4%
Mixed Residential and Commercial	64.0	2.3%
Multi-Family Residential	9.8	0.4%
Open Space and Recreation	244.9	8.8%
Public Facilities	530.2	19.0%
Rural Residential	0.1	0.0018%
Single Family Residential	1158.3	41.4%
Transportation	273.9	9.8%
Undevelopable or Protected Land	208.6	7.5%
<b>Totals</b>	<b>2794.8</b>	<b>100.0%</b>

**Selected Subwatershed**

Land Use	Acres	% of Total Watershed
Agriculture	69.4	9.38%
Education K-12	9.2	1.25%
General Commercial	15.9	2.15%
Light Manufacturing	0.3	0.04%
Mixed Commercial and Industrial	32.4	4.38%
Mixed Residential and Commercial	11.2	1.52%
Multi-Family Residential	5.1	0.69%
Open Space and Recreation	115	15.54%
Public Facilities	31.7	4.28%
Rural Residential	0.9	0.12%
Single Family Residential	228.1	30.83%
Transportation	65.2	8.81%
Undevelopable or Protected Land	155.4	21.00%
<b>Totals</b>	<b>739.7</b>	<b>100.00%</b>



## Oxnard

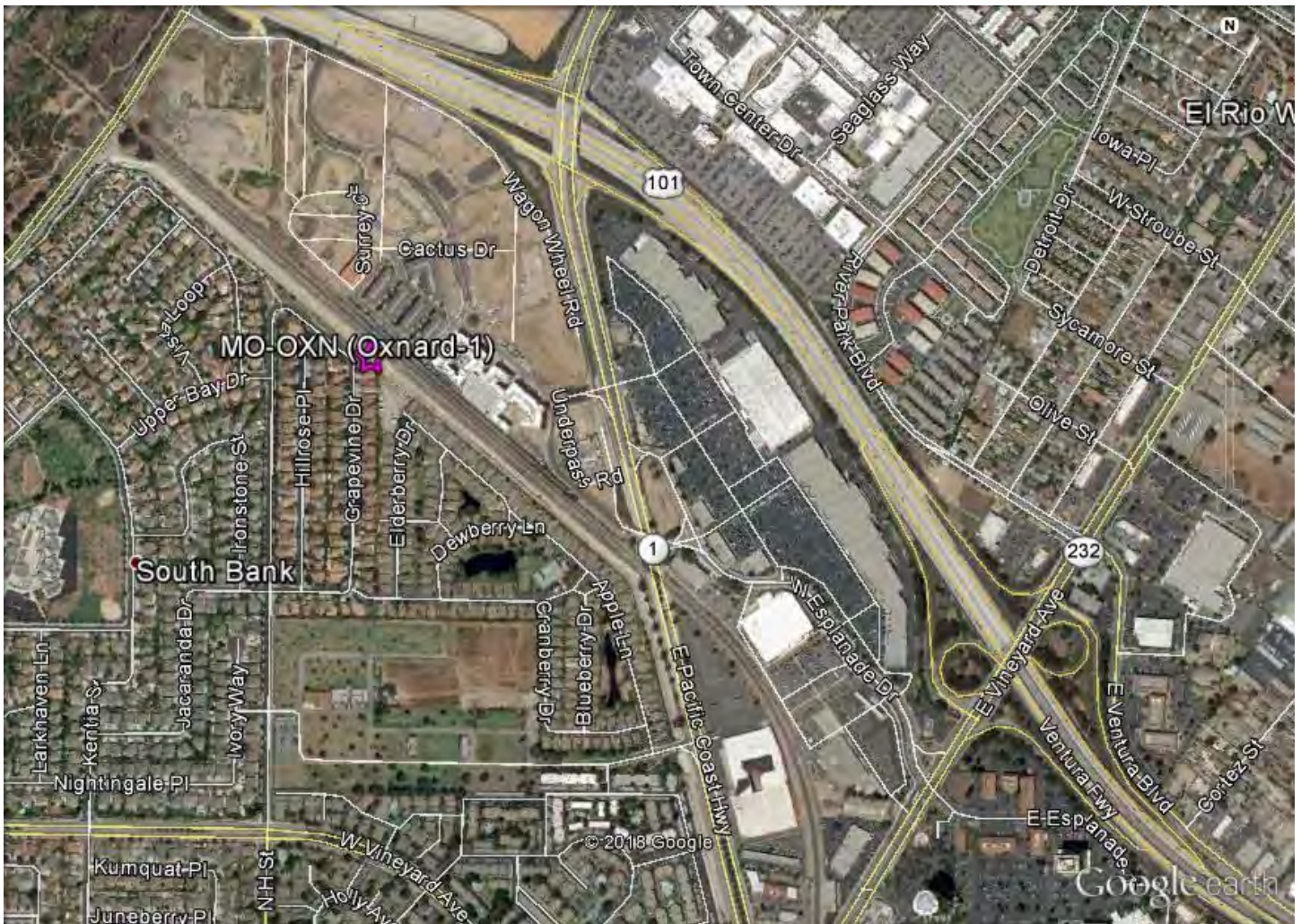
**Station:** MO-OXN (Oxnard-1)

**Waterbody:** El Rio Drain (tributary to Santa Clara River)

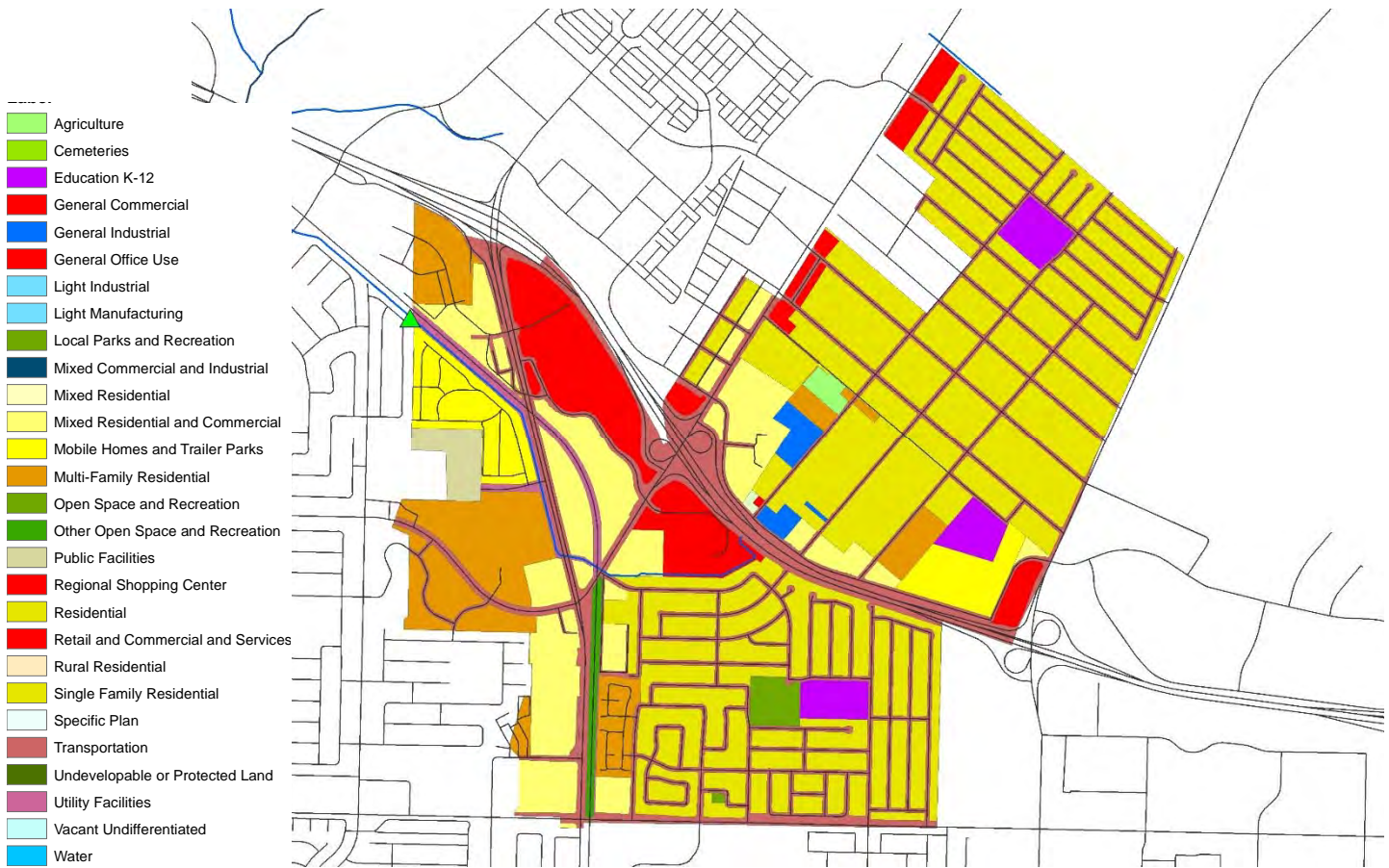
**Location:** Pedestrian bridge 50 yds. southwest bend of Winchester Dr. (34°14'10.13"N, 119°11'3.88"W)

**Known Issues:** Frequent presence of homeless and vandals in area.

**Dry Season Flow Potential:** Intermittent year-round flow due to urban runoff but is typically dry in the dry season.







### Entire City

Land Use	Acres	% of Total Watershed
Agriculture	864.4	5.0%
Education K-12	644.7	3.7%
General Commercial	19.1	0.1%
General Industrial	73.3	0.4%
General Office Use	54.9	0.3%
Heavy Industrial	231.7	1.3%
Light Manufacturing	1555.7	9.0%
Military Installations	0.4	0.0%
Mixed Commercial and Industrial	346.5	2.0%
Mixed Residential and Commercial	814.3	4.7%
Mobile Homes and Trailer Parks	242.7	1.4%
Multi-Family Residential	1446.2	8.3%
Open Space and Recreation	807.3	4.7%
Other Open Space and Recreation	441.7	2.5%
Public Facilities	99.9	0.6%
Regional Shopping Center	339.3	2.0%
Residential	524.3	3.0%
Single Family Residential	3706.4	21.4%
Transportation	3718.5	21.4%
Undevelopable or Protected Land	1000.7	5.8%
Utility Facilities	413.9	2.4%
<b>Totals</b>	<b>17346.1</b>	<b>100.0%</b>

### Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	3.9	0.3%
Education K-12	28.8	2.3%
General Commercial	14.7	1.2%
General Industrial	9.5	0.8%
General Office Use	23.7	1.9%
Mixed Residential and Commercial	141.3	11.3%
Mobile Homes and Trailer Parks	53.1	4.3%
Multi-Family Residential	103.7	8.3%
Open Space and Recreation	9.0	0.7%
Other Open Space and Recreation	7.2	0.6%
Public Facilities	11.9	1.0%
Regional Shopping Center	52.8	4.2%
Single Family Residential	503.9	40.5%
Transportation	264.7	21.3%
Utility Facilities	17.4	1.4%
<b>Totals</b>	<b>1245.6</b>	<b>100.0%</b>



## Port Hueneme

**Station:** MO-HUE (Port Hueneme-1)

**Waterbody:** Hueneme Drain (tributary to Pacific Ocean)

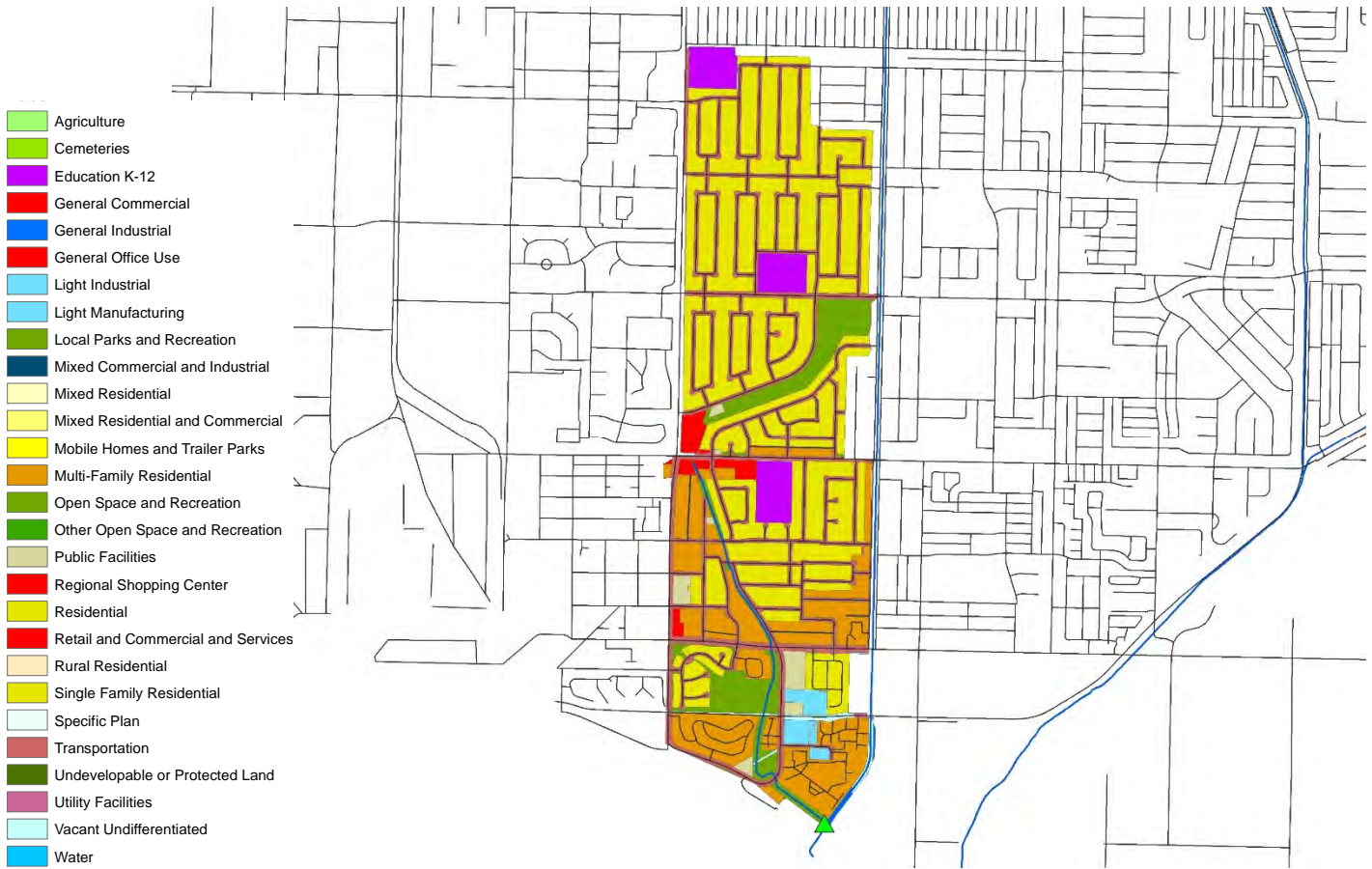
**Location:** Pump Station 300 yds. downstream Surfside Dr. (34°8'27.06"N, 119°11'17.72"W)

**Known Issues:** Water tends to back up at pump station when pumps are off. Salinity varies due to ocean influence.

**Dry Season Flow Potential:** Year-round flow due to urban runoff and groundwater contribution







**Entire City**

Land Use	Acres	% of Total Watershed
Education K-12	33.4	1.2%
General Commercial	71.6	2.5%
Light Manufacturing	13.4	0.5%
Military Installations	1574.1	54.6%
Mixed Residential and Commercial	11.7	0.4%
Multi-Family Residential	330.1	11.4%
Open Space and Recreation	122.6	4.3%
Other Commercial	1.5	0.1%
Public Facilities	9.5	0.3%
Single Family Residential	317.0	11.0%
Transportation	386.4	13.4%
Undevelopable or Protected Land	12.4	0.4%
Utility Facilities	0.3	0.01%
<b>Totals</b>	<b>2884.1</b>	<b>100.0%</b>

**Selected Subwatershed**

Land Use	Acres	% of Total Watershed
Education K-12	27.1	4.5%
General Commercial	9.7	1.6%
General Industrial	1.3	0.2%
Light Manufacturing	8.1	1.3%
Multi-Family Residential	97.1	16.2%
Open Space and Recreation	44.6	7.4%
Public Facilities	8.9	1.5%
Single Family Residential	265.3	44.2%
Transportation	132.6	22.1%
Undevelopable or Protected Land	0.0	0.0%
Utility Facilities	0.3	0.1%
Vacant Undifferentiated	5.1	0.8%
<b>Totals</b>	<b>599.9</b>	<b>100.0%</b>



## Santa Paula

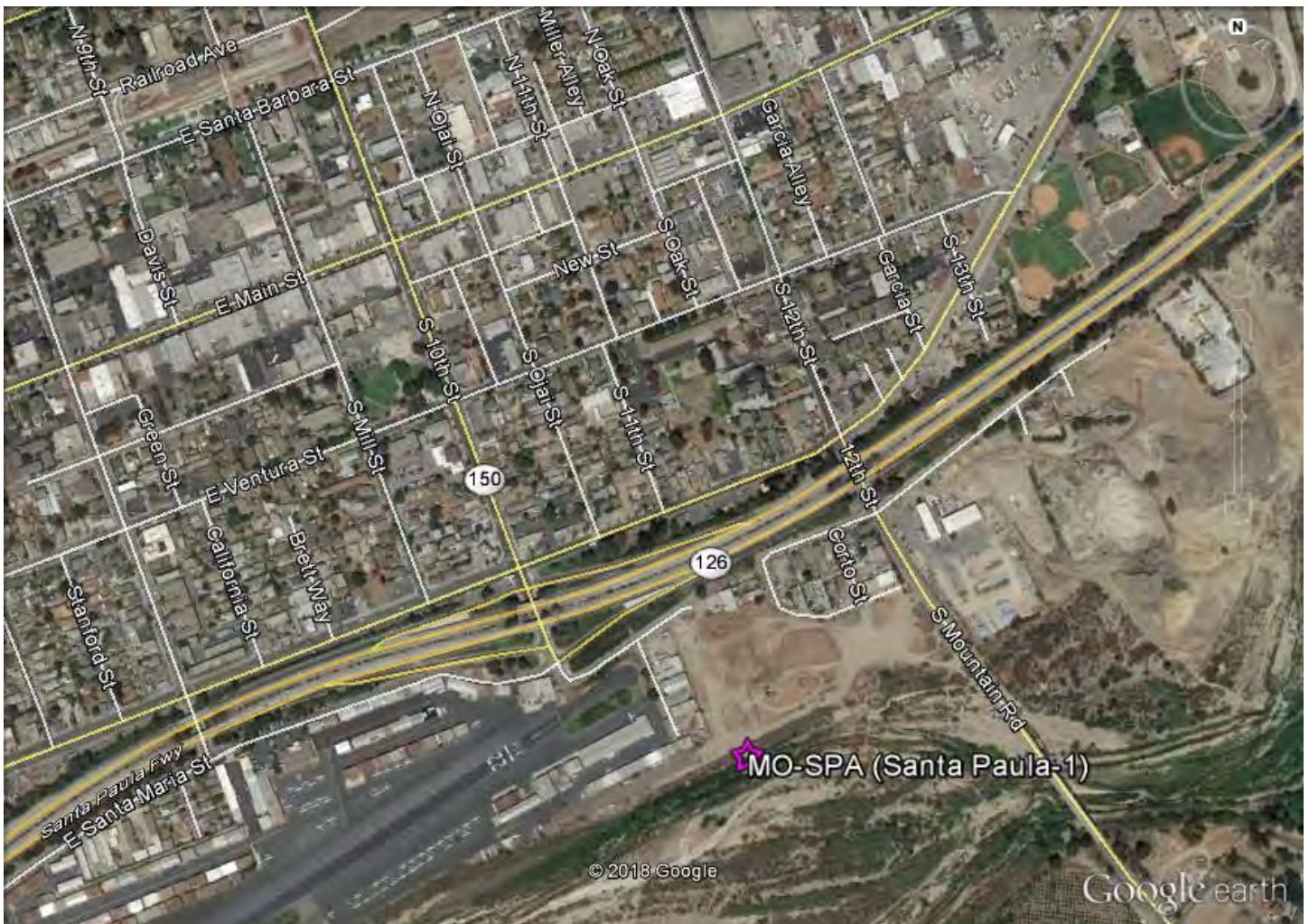
**Station:** MO-SPA (Santa Paula-1)

**Waterbody:** 11<sup>th</sup> Street Drain (tributary to Santa Clara River)

**Location:** Upstream Santa Paula Airport  
(34°20'54.98"N, 119° 3'20.10"W)

**Known Issues:** Homeless presence and vandalism frequent in area.

**Dry Season Flow Potential:** Typically dry between storms. Very infrequent dry weather flow.







**Entire City**

Land Use	Acres	% of Total Watershed
Agriculture	454.6	12.4%
Education K-12	8.3	0.2%
General Office Use	24.2	0.7%
Light Industrial	145.6	4.0%
Light Manufacturing	80.6	2.2%
Local Parks and Recreation	68.8	1.9%
Mixed Commercial and Industrial	200.1	5.5%
Mixed Residential and Commercial	20.3	0.6%
Mobile Homes and Trailer Parks	82.1	2.2%
Multi-Family Residential	330.6	9.0%
Open Space and Recreation	298.4	8.2%
Public Facilities	159.2	4.4%
Retail and Commercial and Services	144.3	4.0%
Single Family Residential	828.0	22.7%
Specific Plan	211.0	5.8%
Transportation	597.3	16.3%
<b>Totals</b>	<b>3653.5</b>	<b>100.0%</b>

**Selected Subwatershed**

Land Use	Acres	% of Total Watershed
Agriculture	8.0	2.2%
Education K-12	8.3	2.2%
General Office Use	0.8	0.2%
Light Industrial	1.5	0.4%
Local Parks and Recreation	11.0	3.0%
Mixed Commercial and Industrial	18.6	5.0%
Mixed Residential and Commercial	0.9	0.2%
Mobile Homes and Trailer Parks	12.8	3.5%
Multi-Family Residential	71.2	19.3%
Open Space and Recreation	0.6	0.2%
Public Facilities	11.3	3.1%
Retail and Commercial and Services	9.7	2.6%
Single Family Residential	141.9	38.4%
Transportation	72.7	19.7%
<b>Totals</b>	<b>369.2</b>	<b>100.0%</b>

## Simi Valley

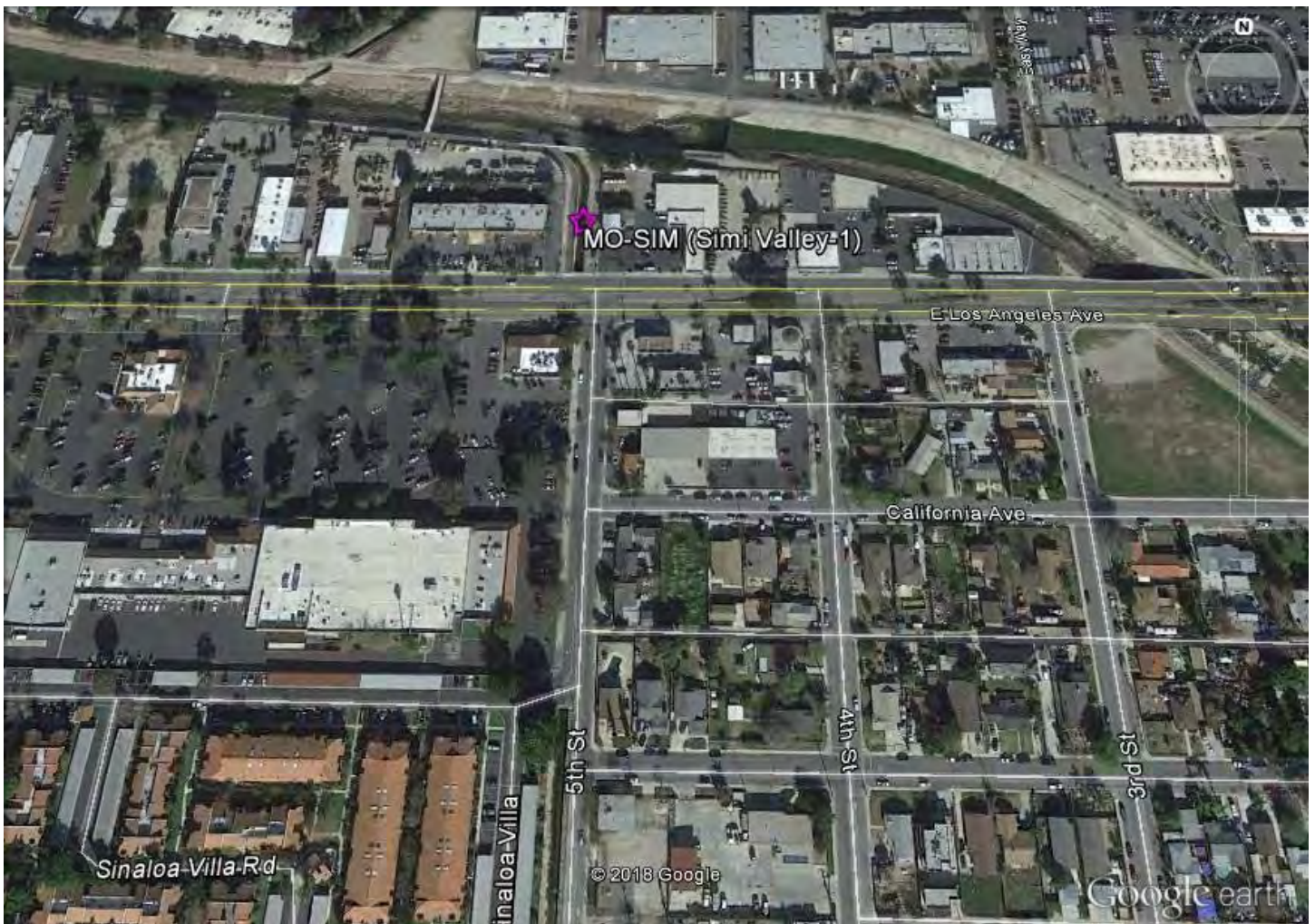
**Station:** MO-SIM (Simi Valley-1)

**Waterbody:** Bus Canyon Drain (tributary to Arroyo Simi)

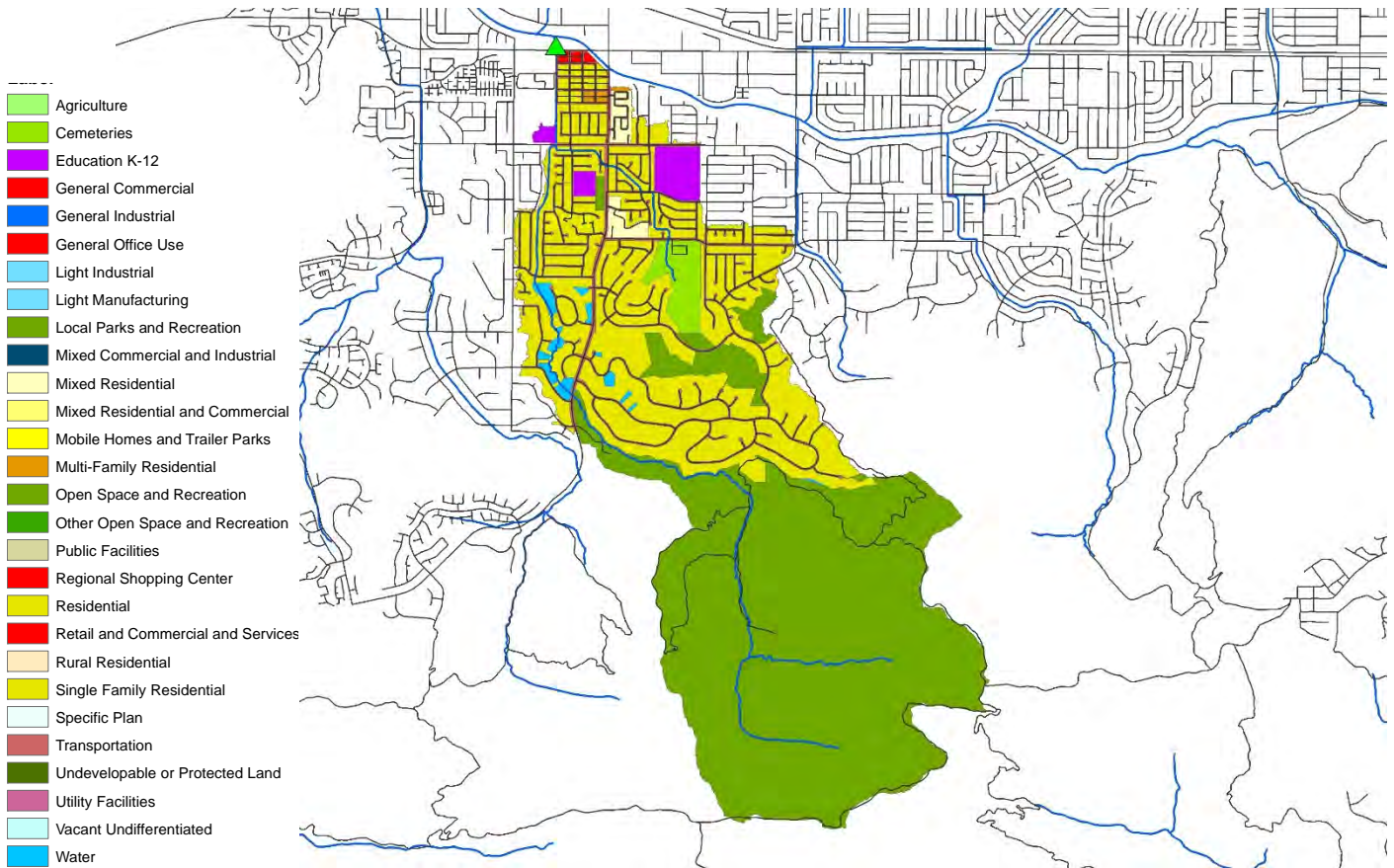
**Location:** North of intersection at 5<sup>th</sup> St. and Los Angeles Ave. (34°16'19.55"N, 118°47'1.41"W)

**Known Issues:** Homeless have been known to camp in area. High salinity due to groundwater discharge

**Dry Season Flow Potential:** Year-round flow due to urban runoff and/or groundwater discharge upstream







### Entire City

Land Use	Acres	% of Total Watershed
Agriculture	134.2	0.5%
Cemeteries	234.0	0.9%
Education College	84.9	0.3%
Education K-12	75.8	0.3%
General Office Use	97.4	0.4%
Golf Courses	856.8	3.2%
Light Industrial	1173.7	4.3%
Local Parks and Recreation	555.2	2.1%
Mixed Residential	987.4	3.6%
Mixed Residential and Commercial	143.6	0.5%
Mobile Homes and Trailer Parks	68.1	0.3%
Multi-Family Residential	550.7	2.0%
Open Space and Recreation	9693.6	35.8%
Other Commercial	39.5	0.1%
Public Facilities	87.9	0.3%
Retail and Commercial and Services	653.6	2.4%
Single Family Residential	7712.5	28.5%
State and National Parks and Recreation	54.5	0.2%
Transportation	3536.0	13.1%
Water	313.2	1.2%
<b>Totals</b>	<b>27052.5</b>	<b>100.0%</b>

### Selected Subwatershed

Land Use	Acres	% of Total Watershed
Cemeteries	62.3	2.0%
Education K-12	59.4	1.9%
Local Parks and Recreation	5.5	0.2%
Mixed Residential	32.7	1.0%
Multi-Family Residential	5.7	0.2%
Open Space and Recreation	1747.4	55.3%
Retail and Commercial and Services	5.6	0.2%
Single Family Residential	967.4	30.6%
Transportation	239.7	7.6%
Water	34.6	1.1%
<b>Totals</b>	<b>3160.2</b>	<b>100.0%</b>



## Thousand Oaks

**Station:** MO-THO (Thousand Oaks-1)

**Waterbody:** North Fork Arroyo Conejo (tributary to Conejo Creek)

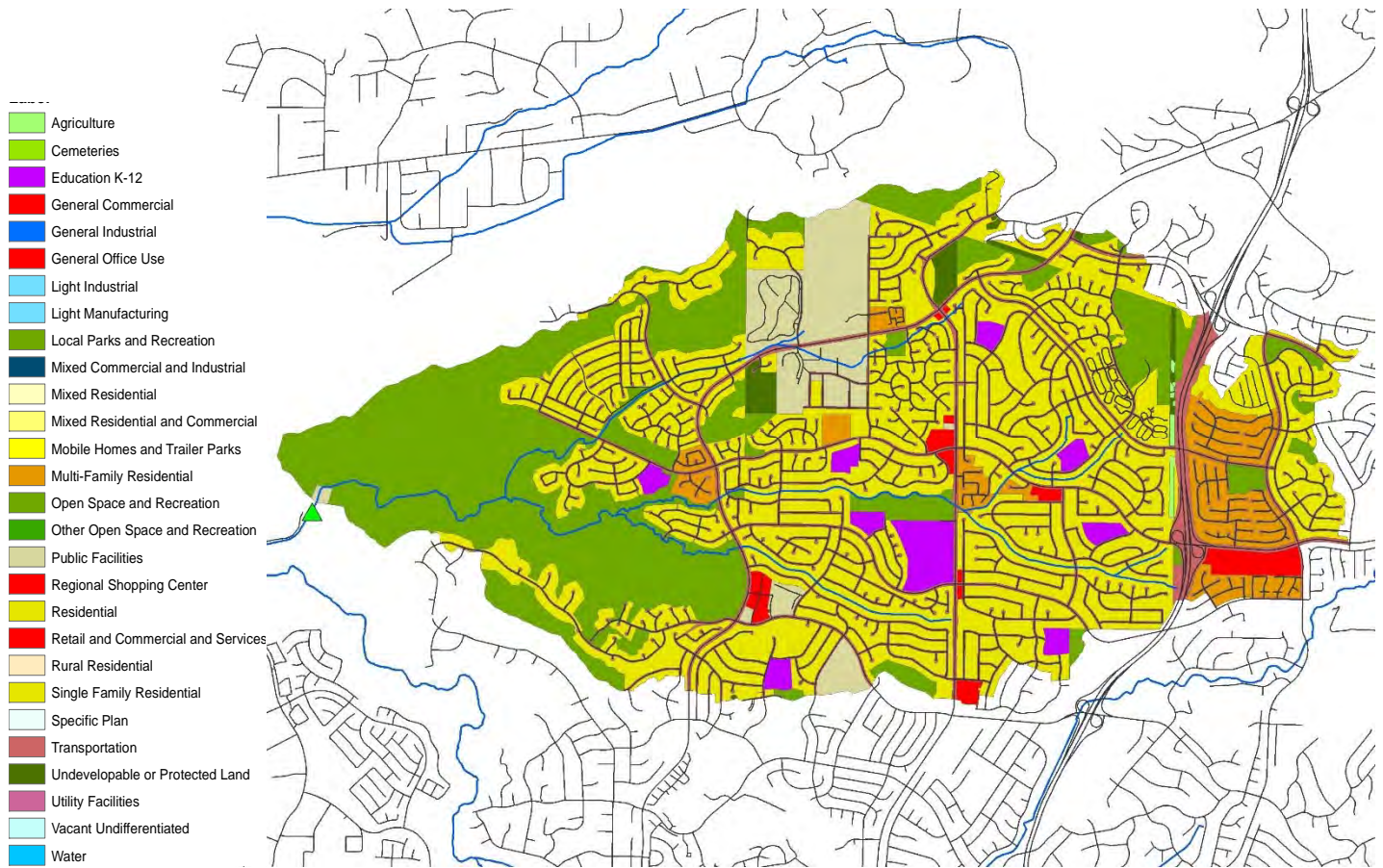
**Location:** Hill Canyon WWTP sampling location R-1 (34°12'48.03"N, 118°55'17.09"W)

**Known Issues:** Rare access issues due to locked gates.

**Dry Season Flow Potential:** Year-round flow due to urban runoff however site does experience backwater effects from WWTP discharge in very dry weather.







### Entire City

Land Use	Acres	% of Total Watershed
Agriculture	61.1	0.2%
Education K-12	423.0	1.2%
General Commercial	1049.4	3.0%
General Industrial	945.2	2.7%
Local Parks and Recreation	11.3	0.03%
Mixed Residential and Commercial	254.0	0.7%
Mobile Homes and Trailer Parks	144.2	0.4%
Multi-Family Residential	2068.3	5.8%
Open Space and Recreation	15007.8	42.3%
Other Open Space and Recreation	40.6	0.1%
Public Facilities	518.2	1.5%
Residential	633.8	1.8%
Single Family Residential	9531.2	26.9%
Transportation	4041.7	11.4%
Undevelopable or Protected Land	725.4	2.0%
Water	30.7	0.1%
<b>Totals</b>	<b>35485.7</b>	<b>100.0%</b>

### Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	7.9	0.2%
Education K-12	123.6	2.4%
General Commercial	73.7	1.4%
Local Parks and Recreation	3.5	0.1%
Multi-Family Residential	221.0	4.3%
Open Space and Recreation	1329.0	26.0%
Public Facilities	300.1	5.9%
Residential	8.4	0.2%
Single Family Residential	2175.4	42.6%
Transportation	818.1	16.0%
Undevelopable or Protected Land	50.6	1.0%
<b>Totals</b>	<b>5111.4</b>	<b>100.0%</b>



## Ventura

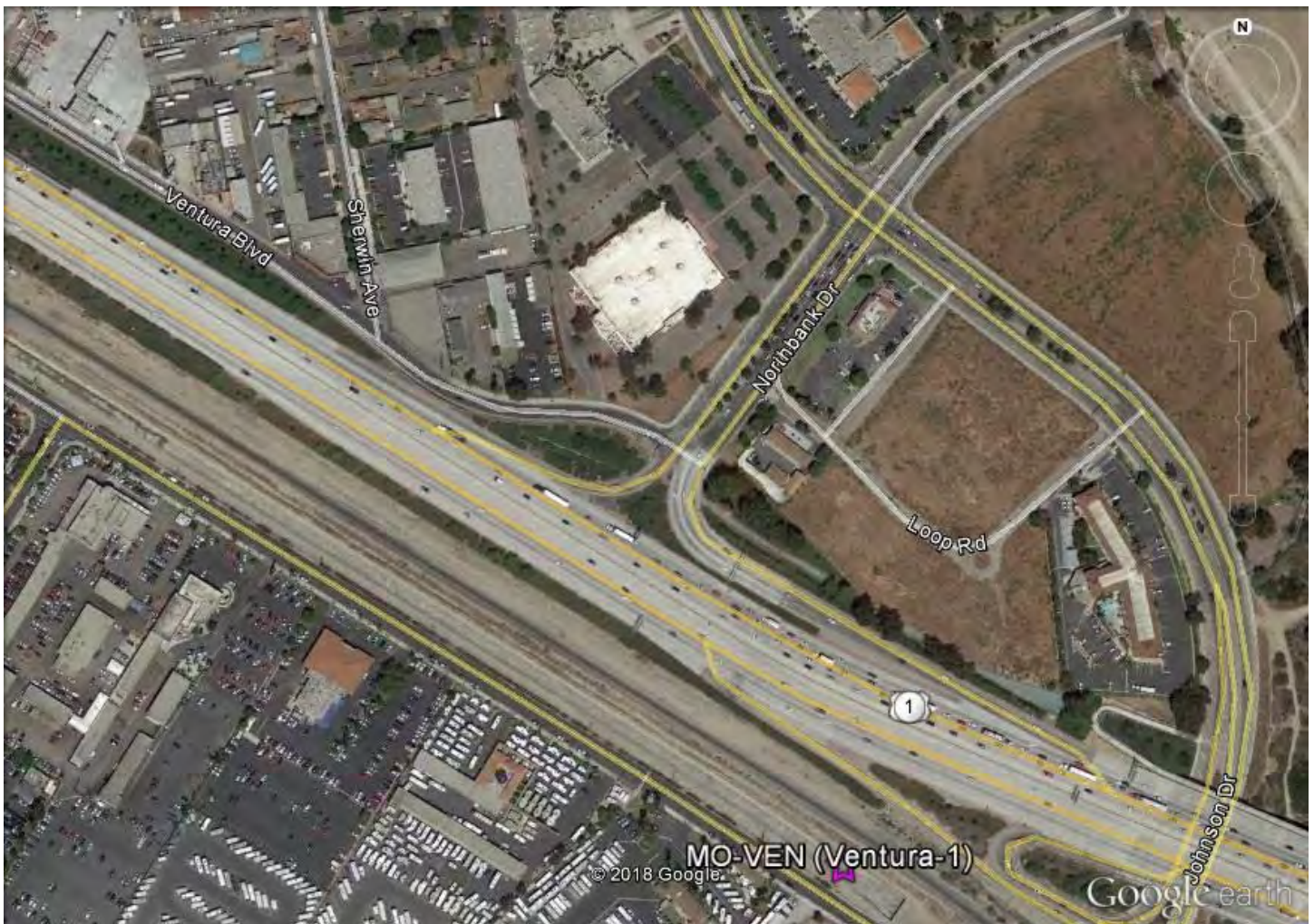
**Station:** MO-VEN (Ventura-1)

**Waterbody:** Moon Ditch (tributary to Santa Clara River)

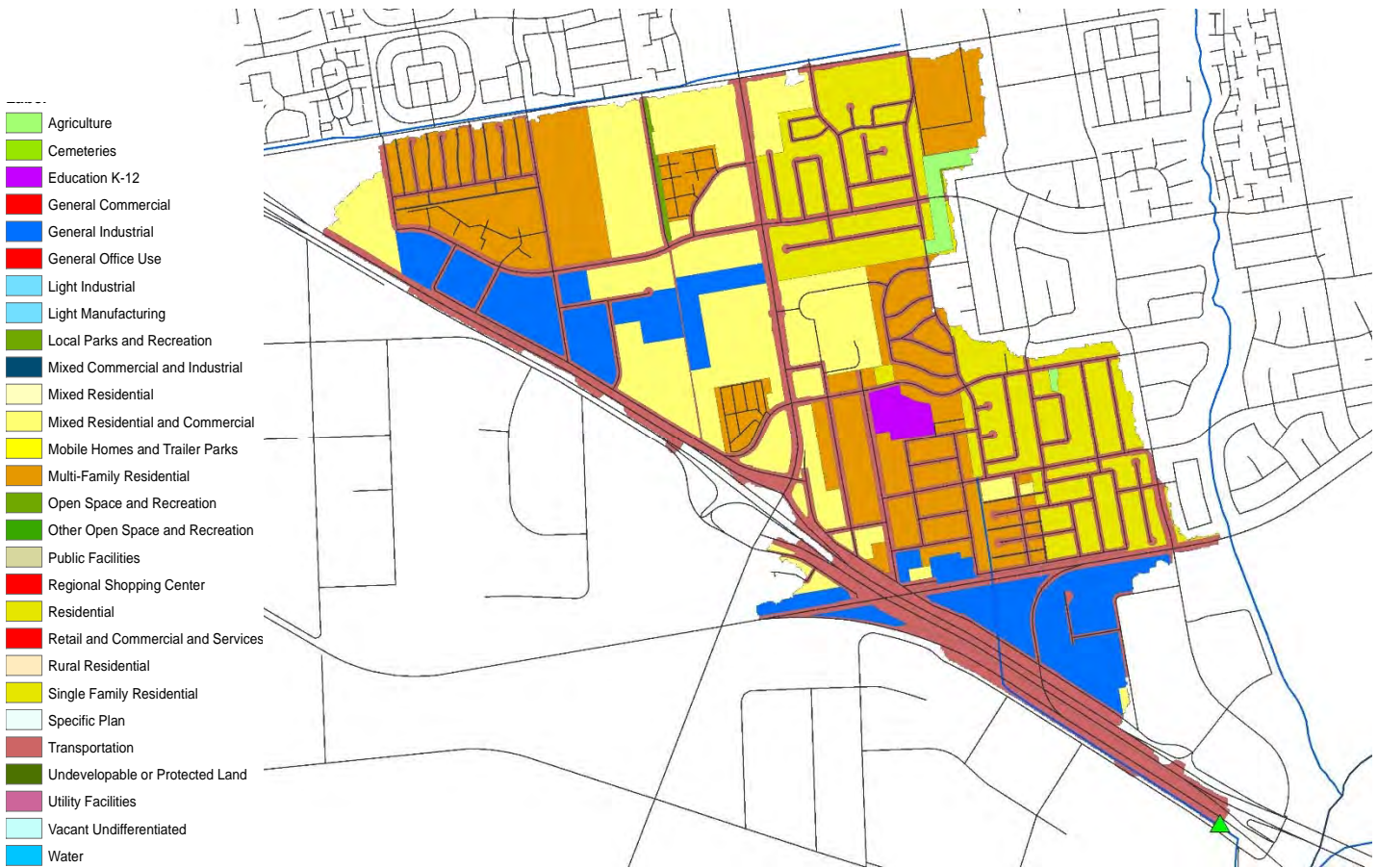
**Location:** Between Leland St. and US 101, north of Johnson Dr. (34°14'36.69"N, 119°11'42.06"W)

**Known Issues:** Wide concrete bottom spreads out low flows.

**Dry Season Flow Potential:** Intermittent year-round flow due to urban runoff and/or groundwater discharge







**Entire City**

Land Use	Acres	% of Total Watershed
Agriculture	482.9	3.4%
Education K-12	6.8	0.05%
General Industrial	937.7	6.6%
Mixed Residential and Commercial	1447.0	10.2%
Multi-Family Residential	994.7	7.0%
Open Space and Recreation	1432.5	10.1%
Public Facilities/Schools	561.1	3.9%
Rural Residential	0.4	0.0%
Single Family Residential	4806.2	33.8%
Specific Plan	548.9	3.9%
Transportation	2989.6	21.0%
<b>Totals</b>	<b>14207.8</b>	<b>100.0%</b>

**Selected Subwatershed**

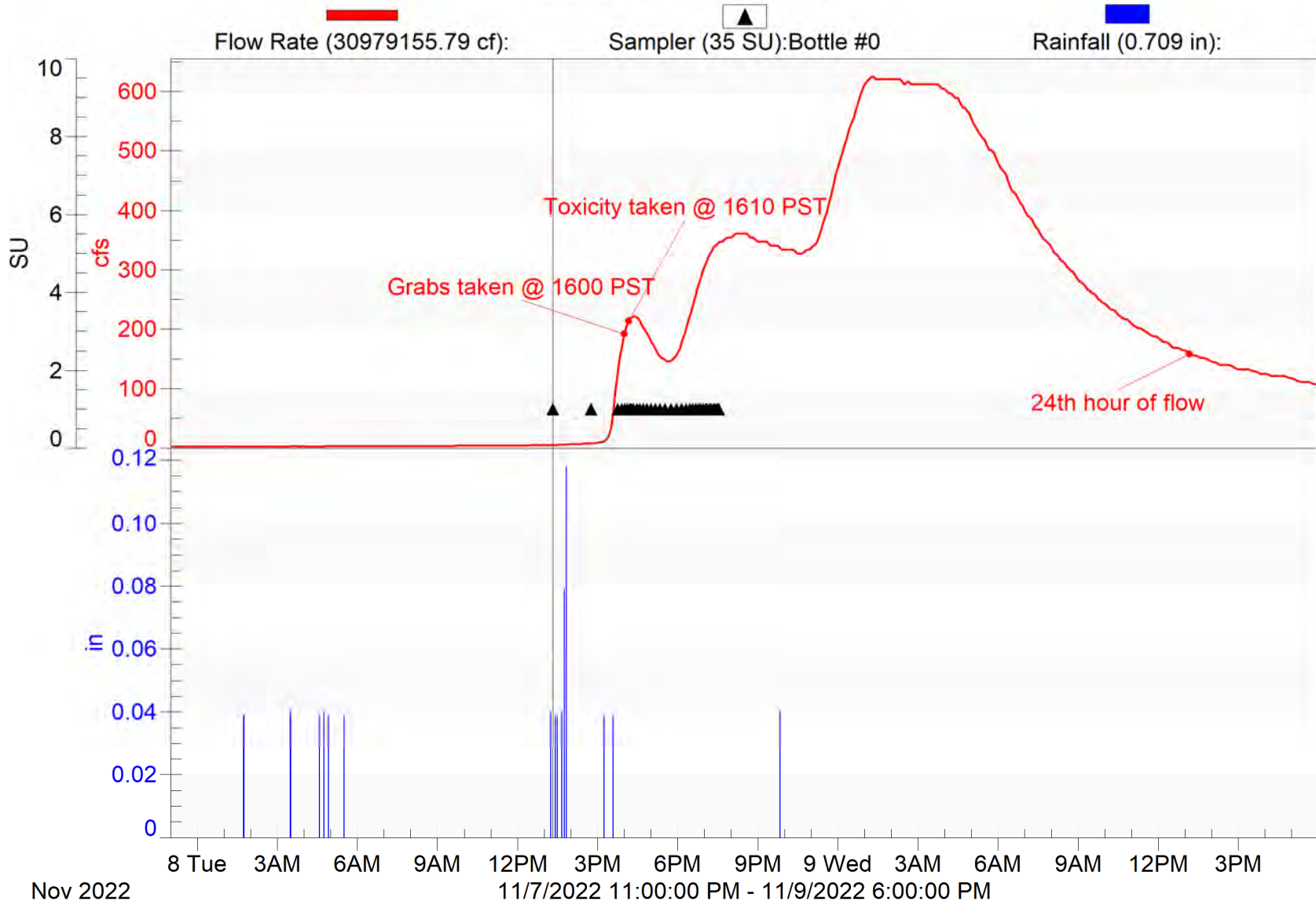
Land Use	Acres	% of Total Watershed
Agriculture	6.3	0.8%
Education K-12	6.8	0.9%
General Industrial	94.4	12.5%
Mixed Residential and Commercial	158.2	20.9%
Multi-Family Residential	161.0	21.3%
Open Space and Recreation	1.8	0.2%
Single Family Residential	123.7	16.4%
Transportation	203.1	26.9%
<b>Totals</b>	<b>755.3</b>	<b>100.0%</b>



## Appendix B. Event Hydrographs

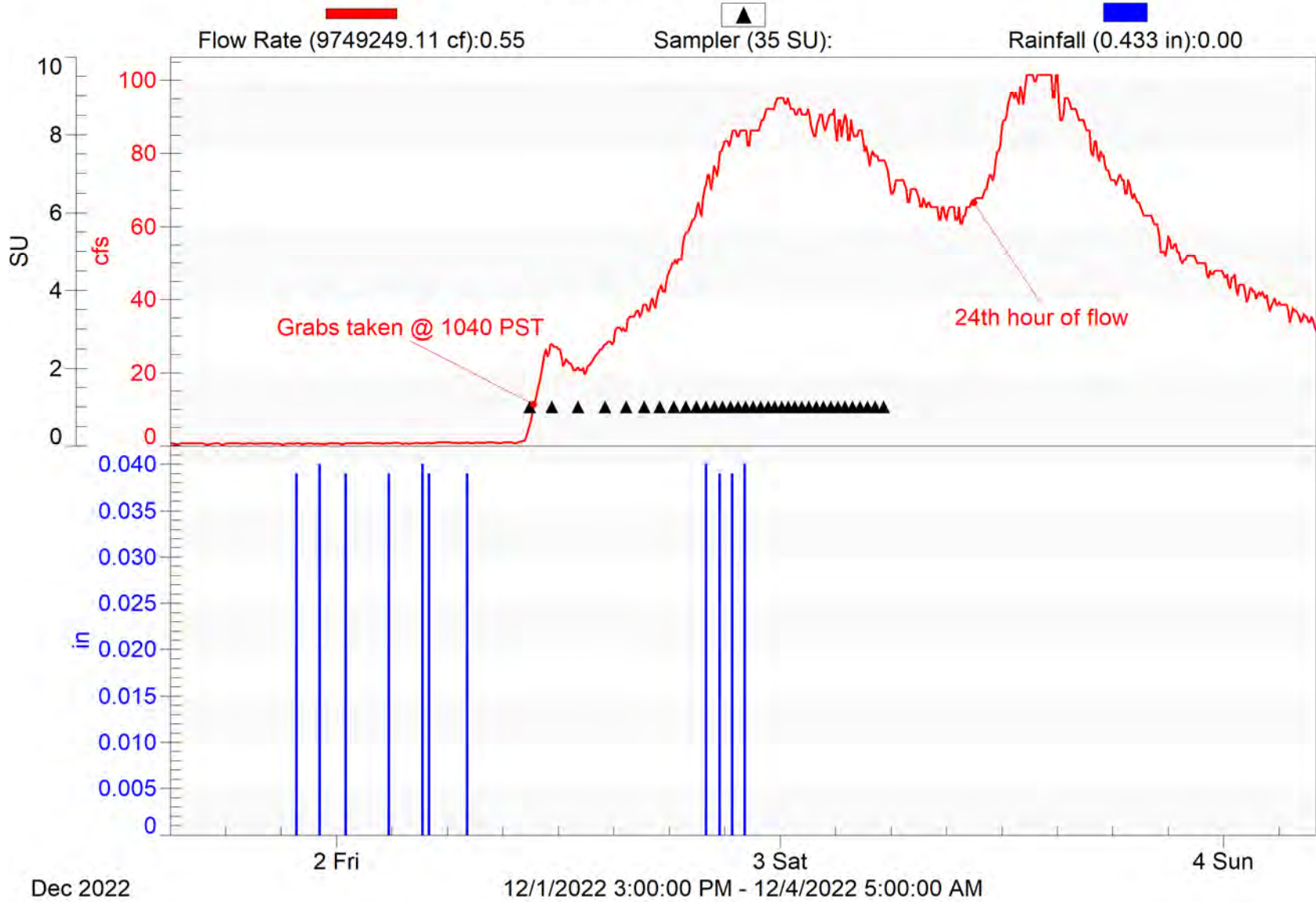


ME-CC  
2022/23 NPDES Event 1 (Wet)



# ME-CC

2022/23 NPDES Event 2 (Wet)





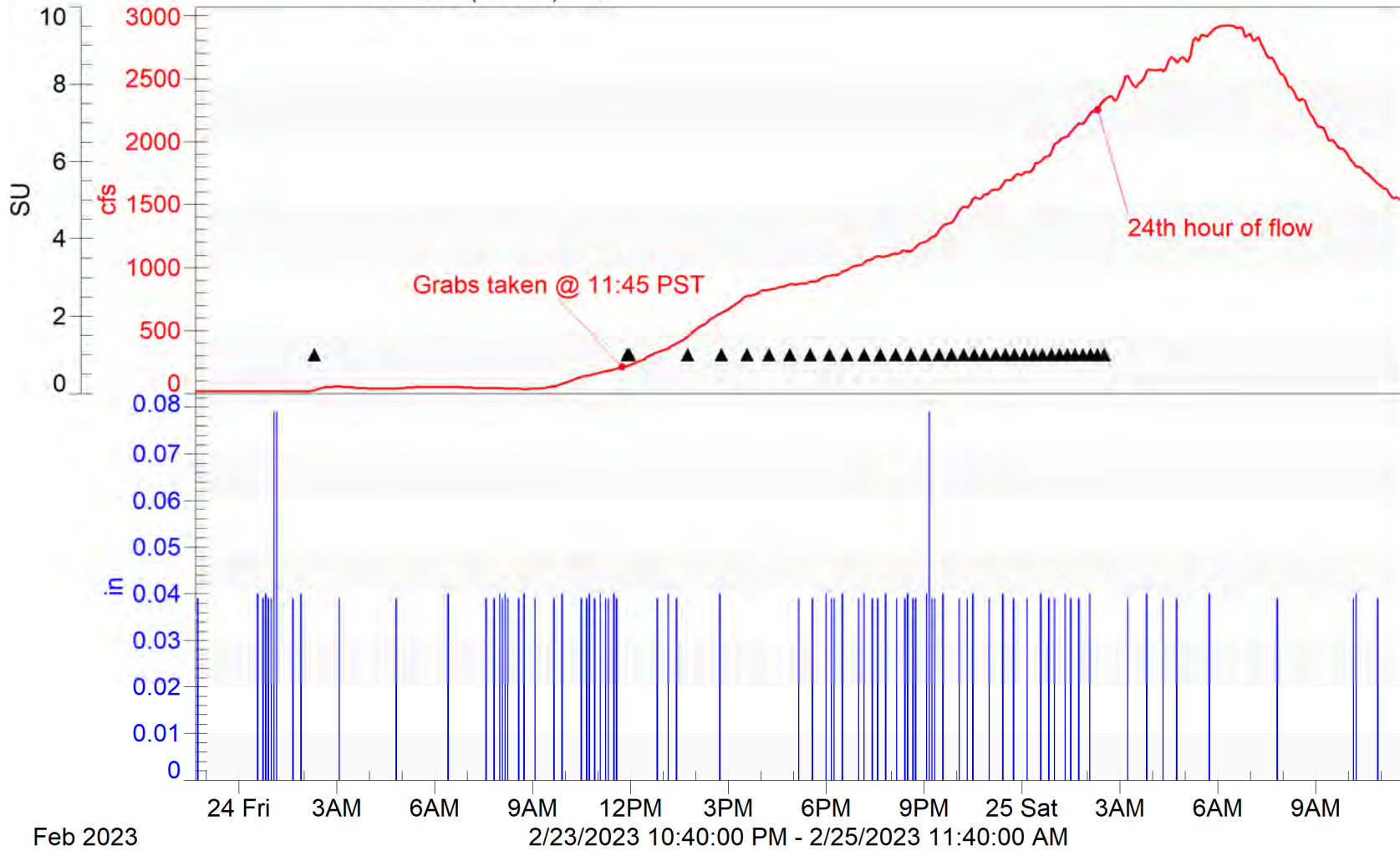
# ME-CC

2022/23 NPDES Event 4 (Wet)

Flow Rate (140801563.18 cf):16.82

Sampler (35 SU):

Rainfall (3.31 in):0.00



Feb 2023

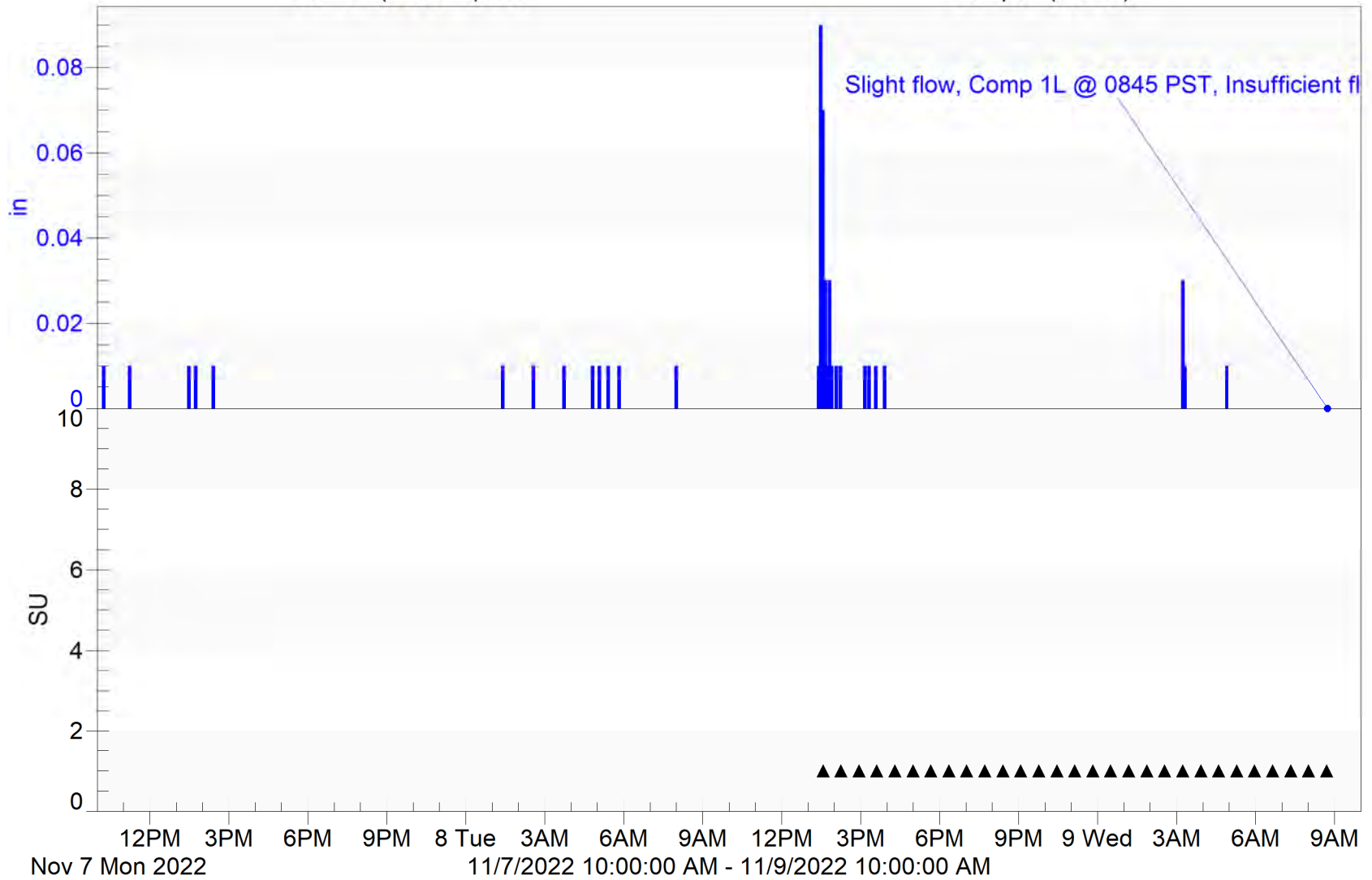
2/23/2023 10:40:00 PM - 2/25/2023 11:40:00 AM

# ME-SCR

2022/23 NPDES Event #1 (Wet) (NO FLOW)

Rainfall (0.490 in):0.00

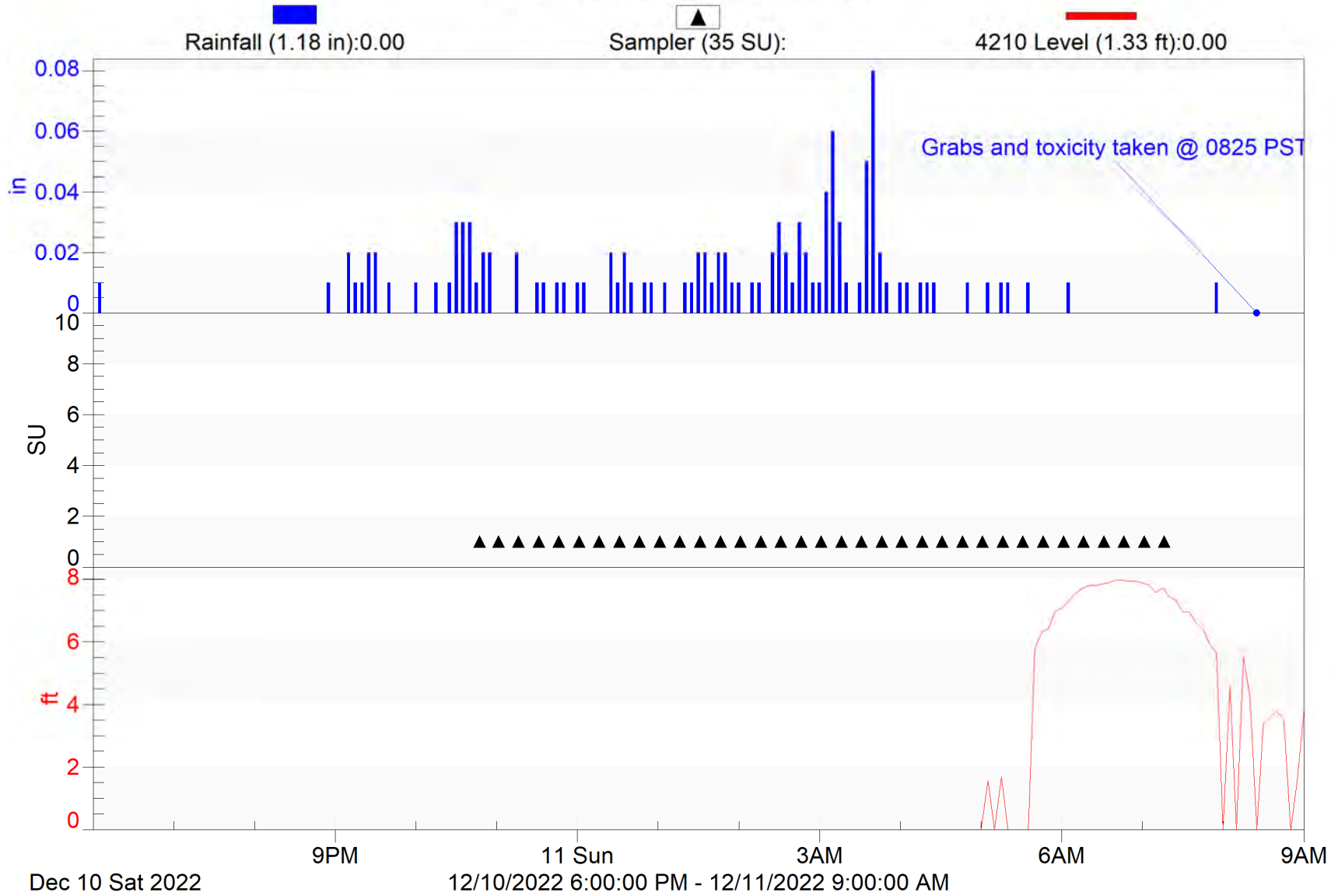
Sampler (29 SU):





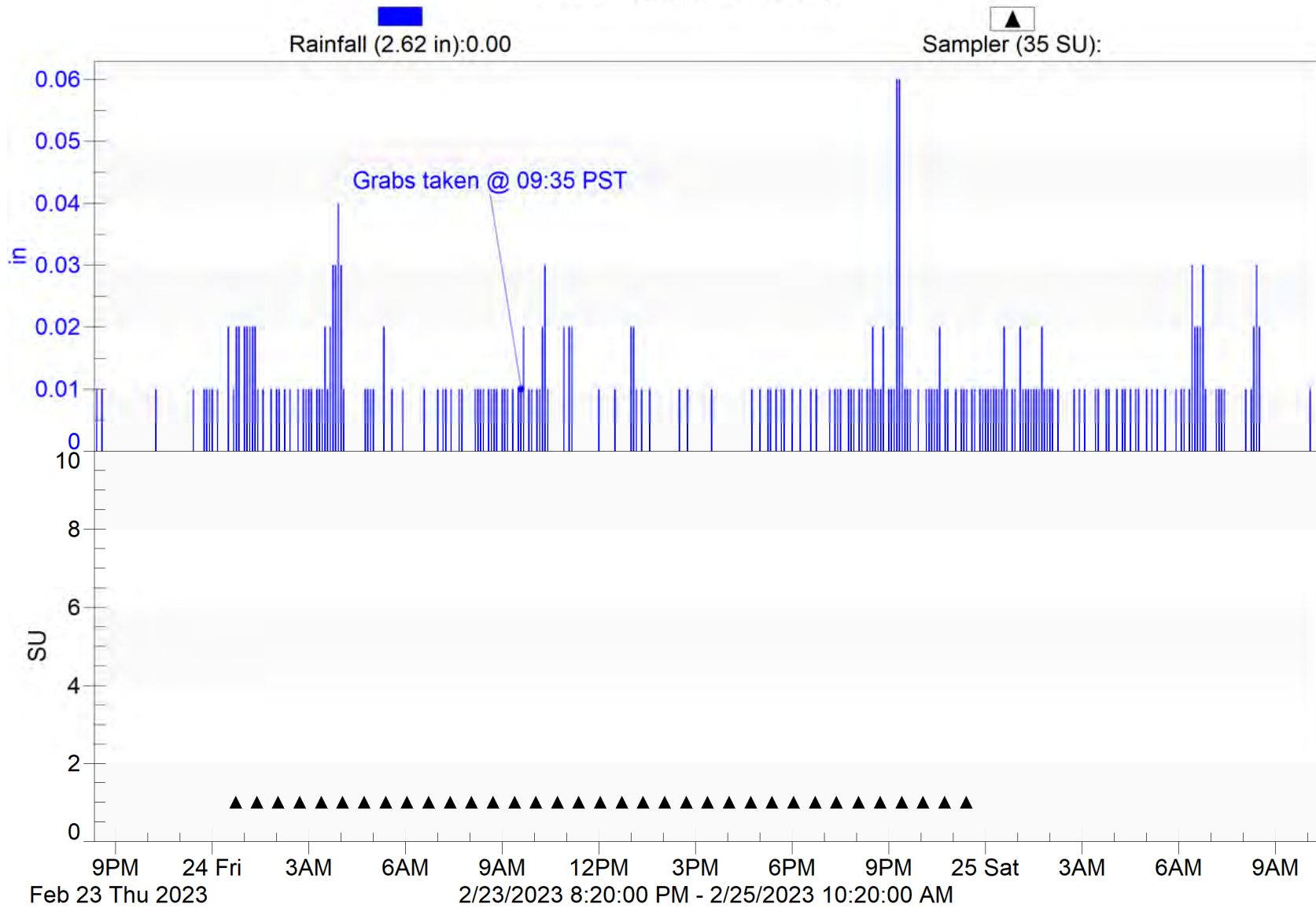
# ME-SCR

2022/23 NPDES Event #3 (Wet-FirstFlush)



# ME-SCR

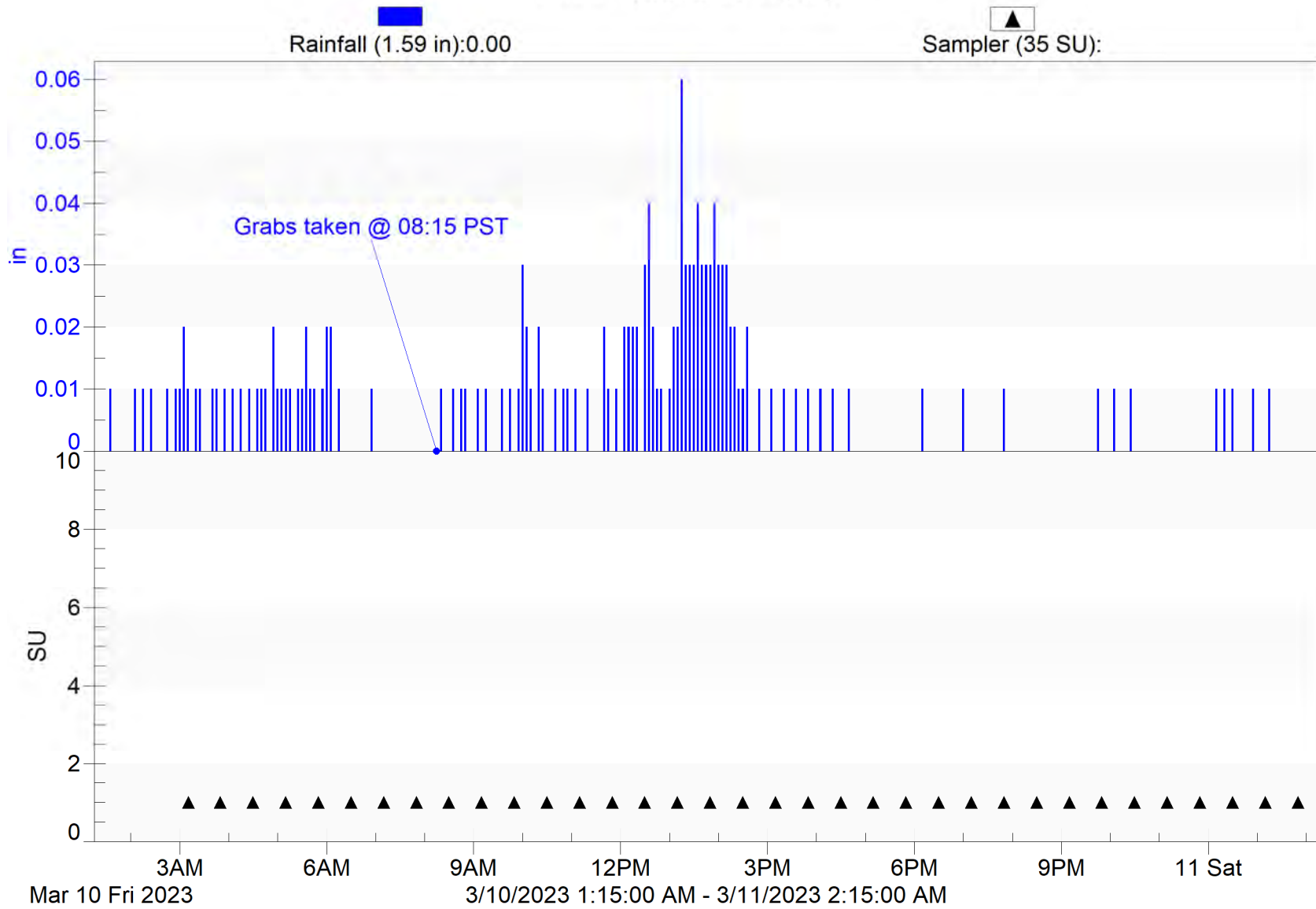
2022/23 NPDES Event #4 (Wet)





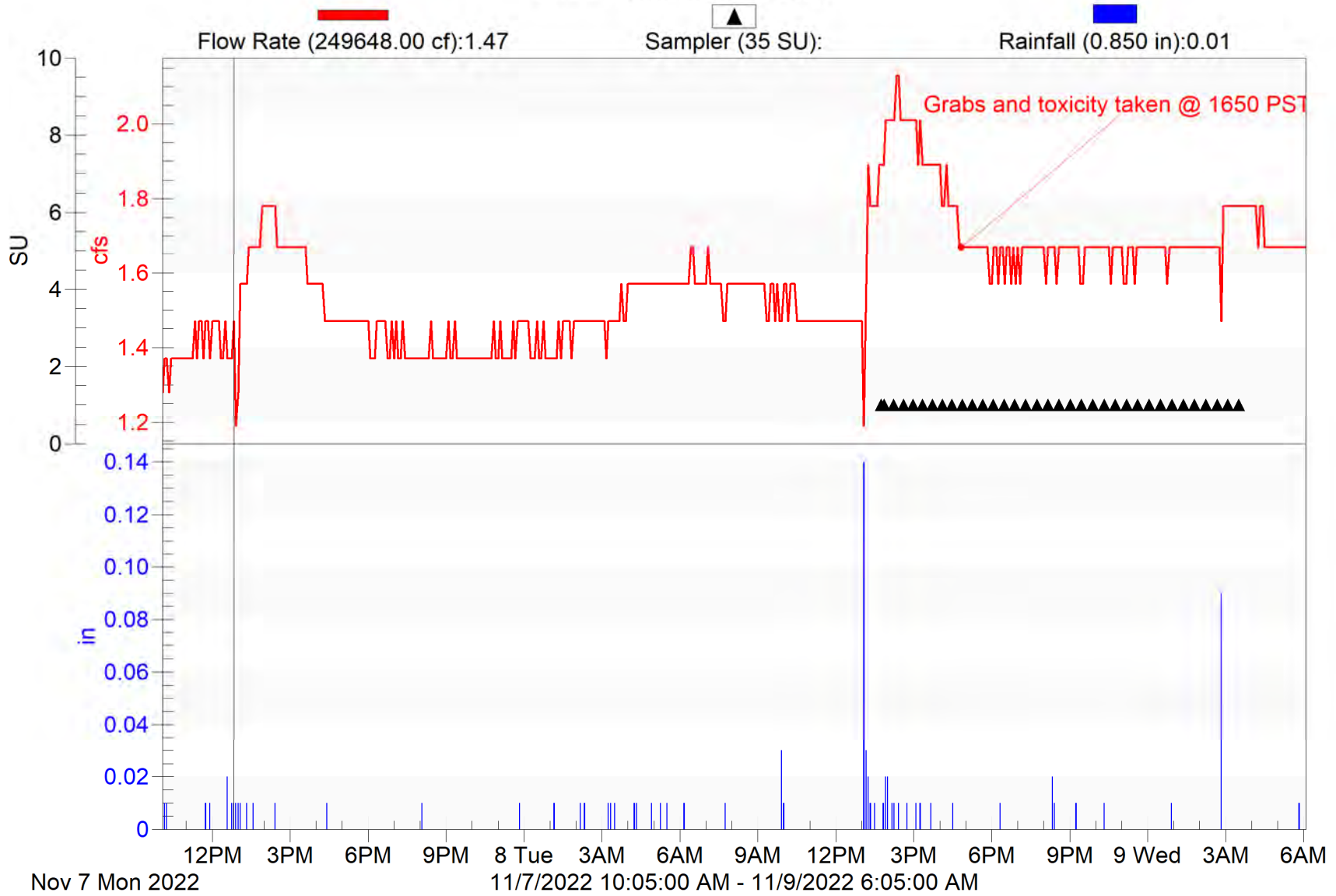
# ME-SCR

2022/23 NPDES Event #5 (Wet)



# ME-VR2

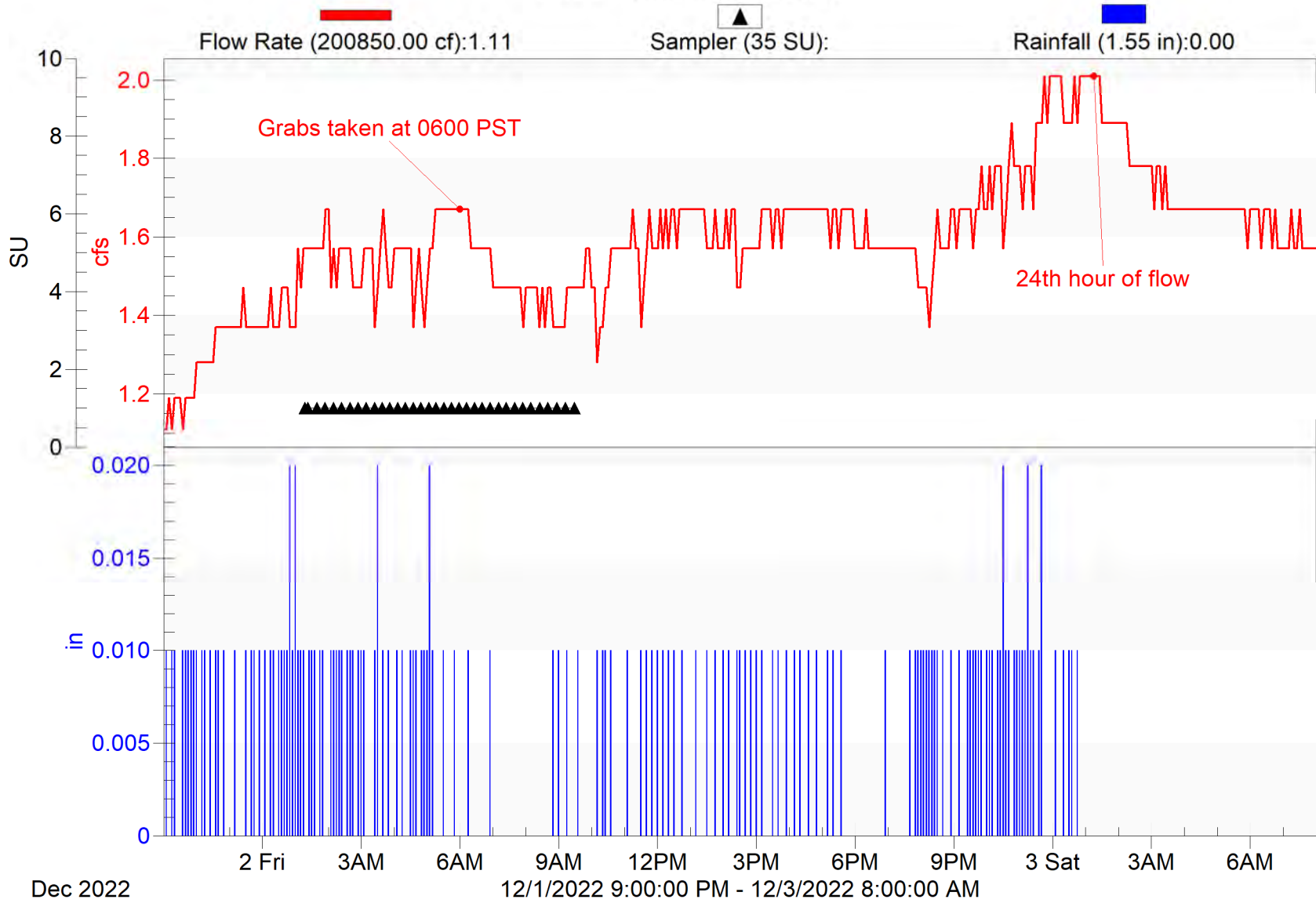
2022/23 NPDES Event #1 (Wet)





# ME-VR2

2022/23 NPDES Event #2 (Wet)



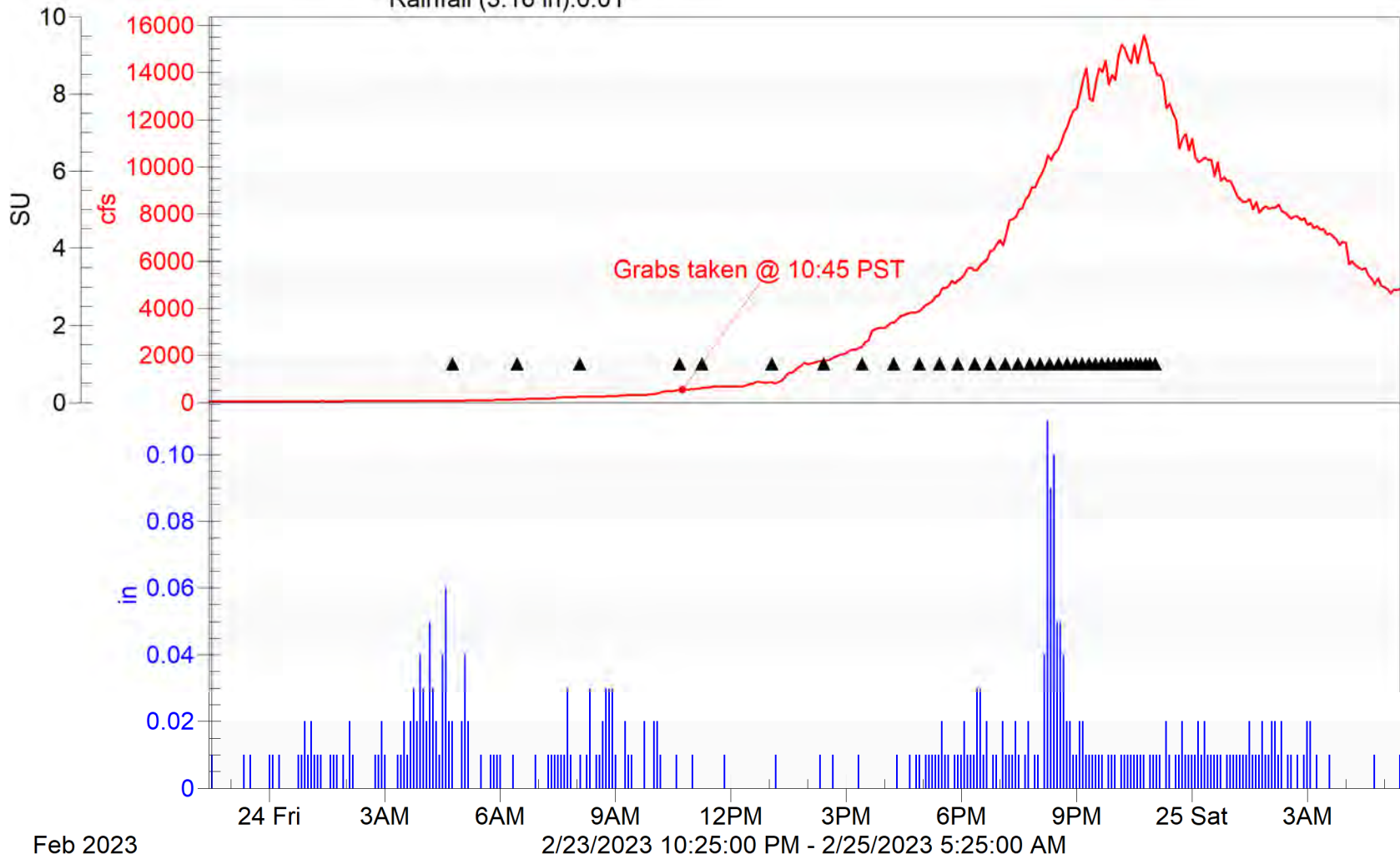
# ME-VR2

2022/23 NPDES Event #4 (Wet)

Flow Rate (448135378.40 cf):41.10

Sampler (36 SU):

Rainfall (3.16 in):0.01

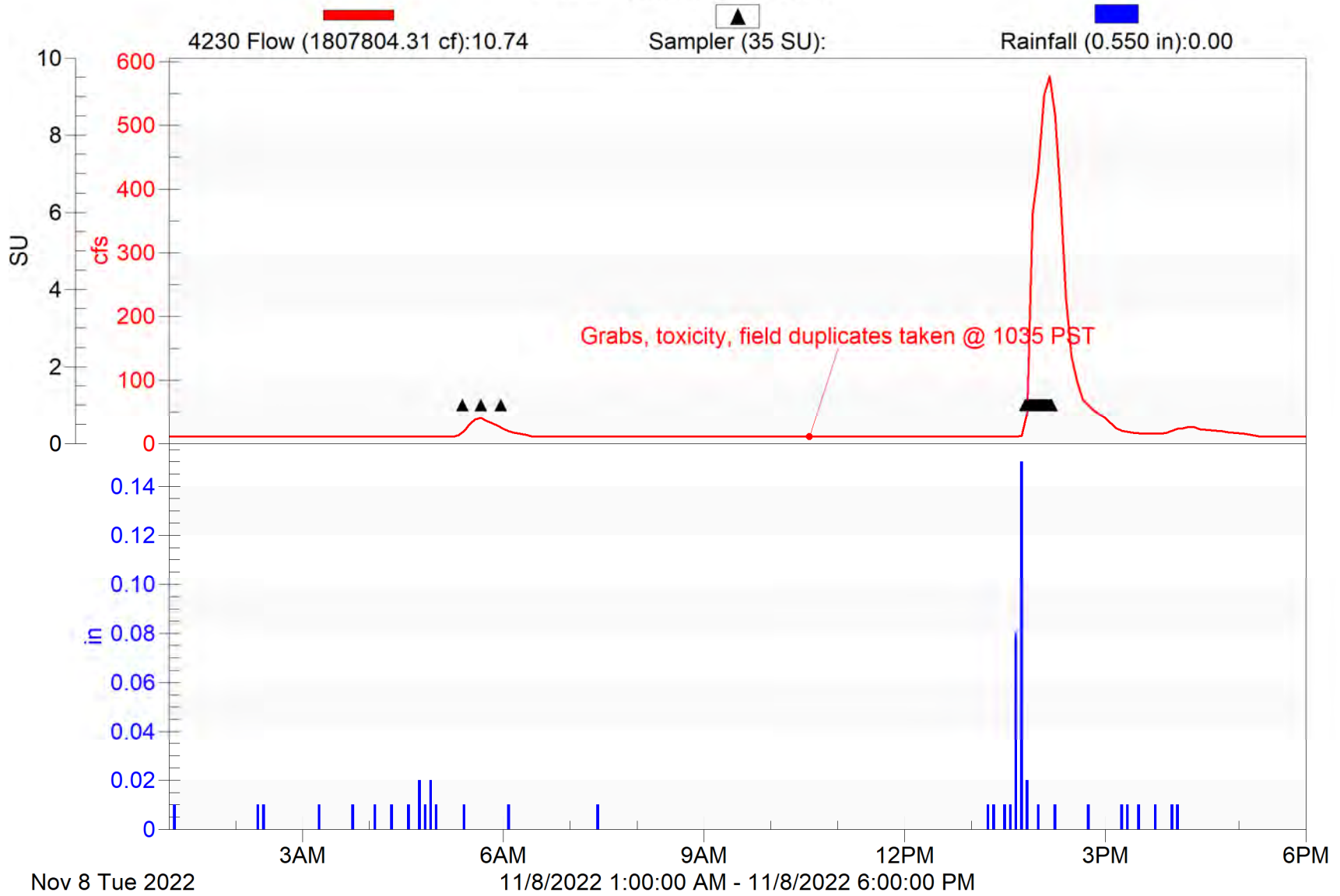


Feb 2023



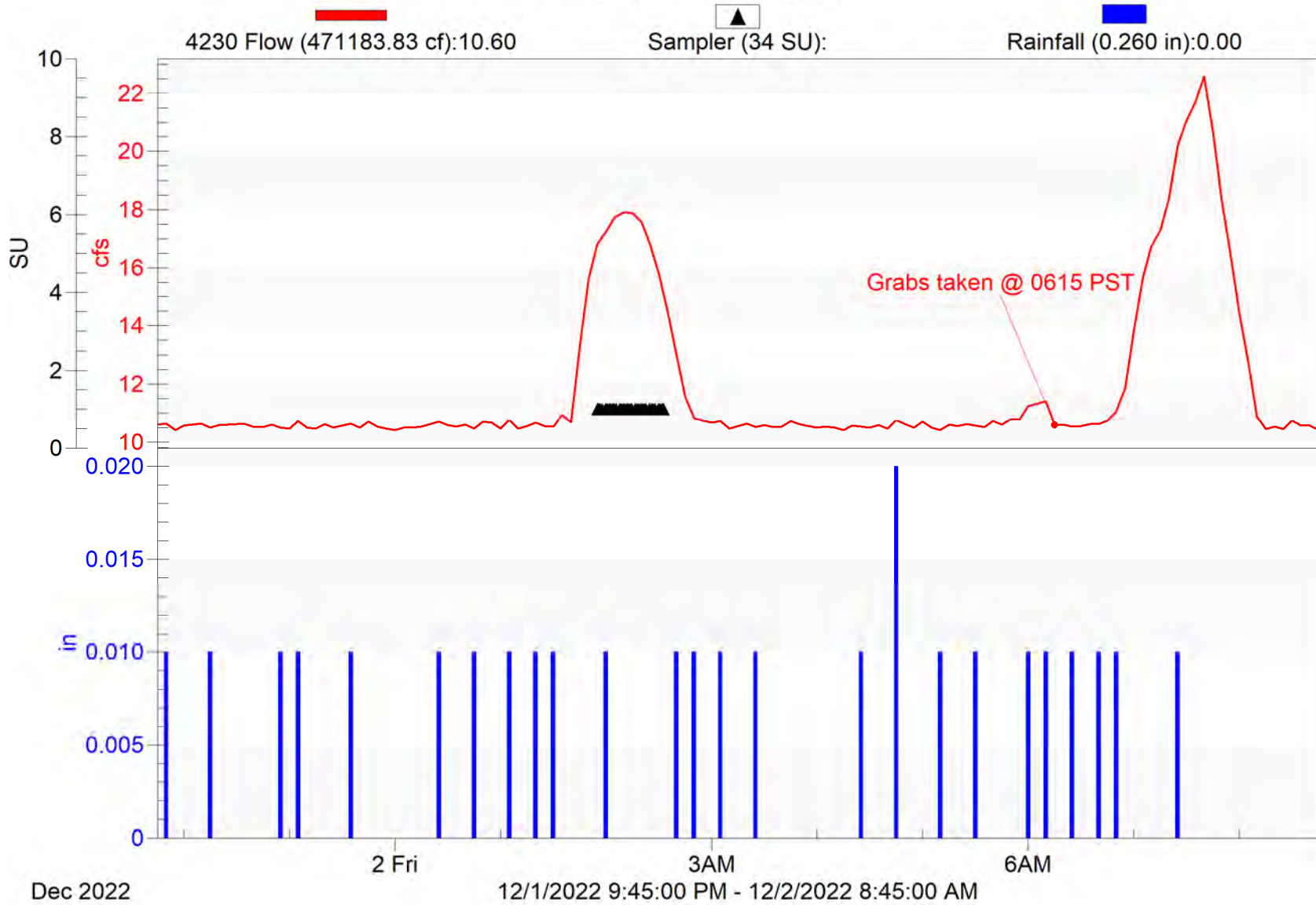
# Camarillo-1

2022/23 NPDES Event #1 (Wet)



# Camarillo-1

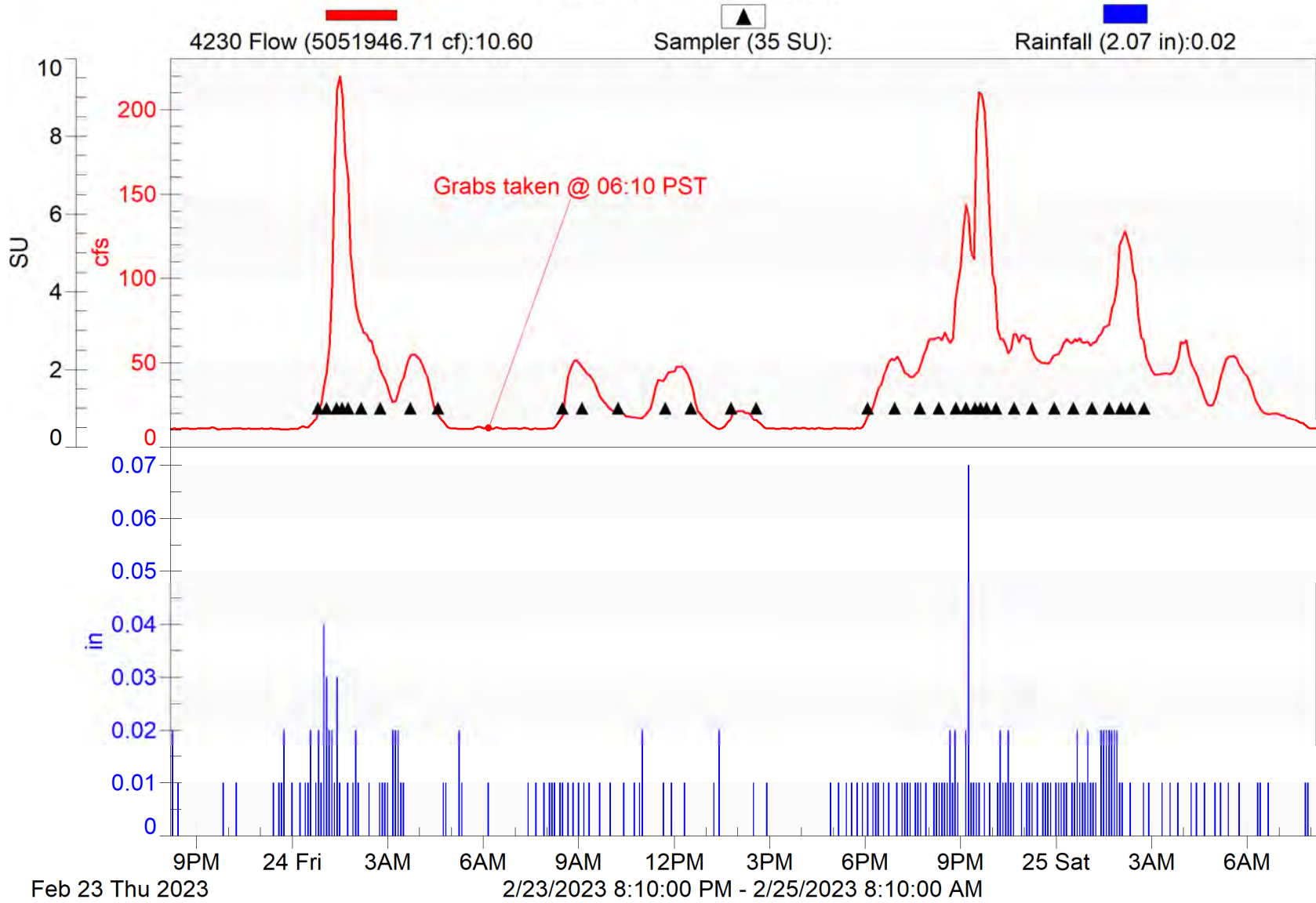
2022/23 NPDES Event #2 (Wet)





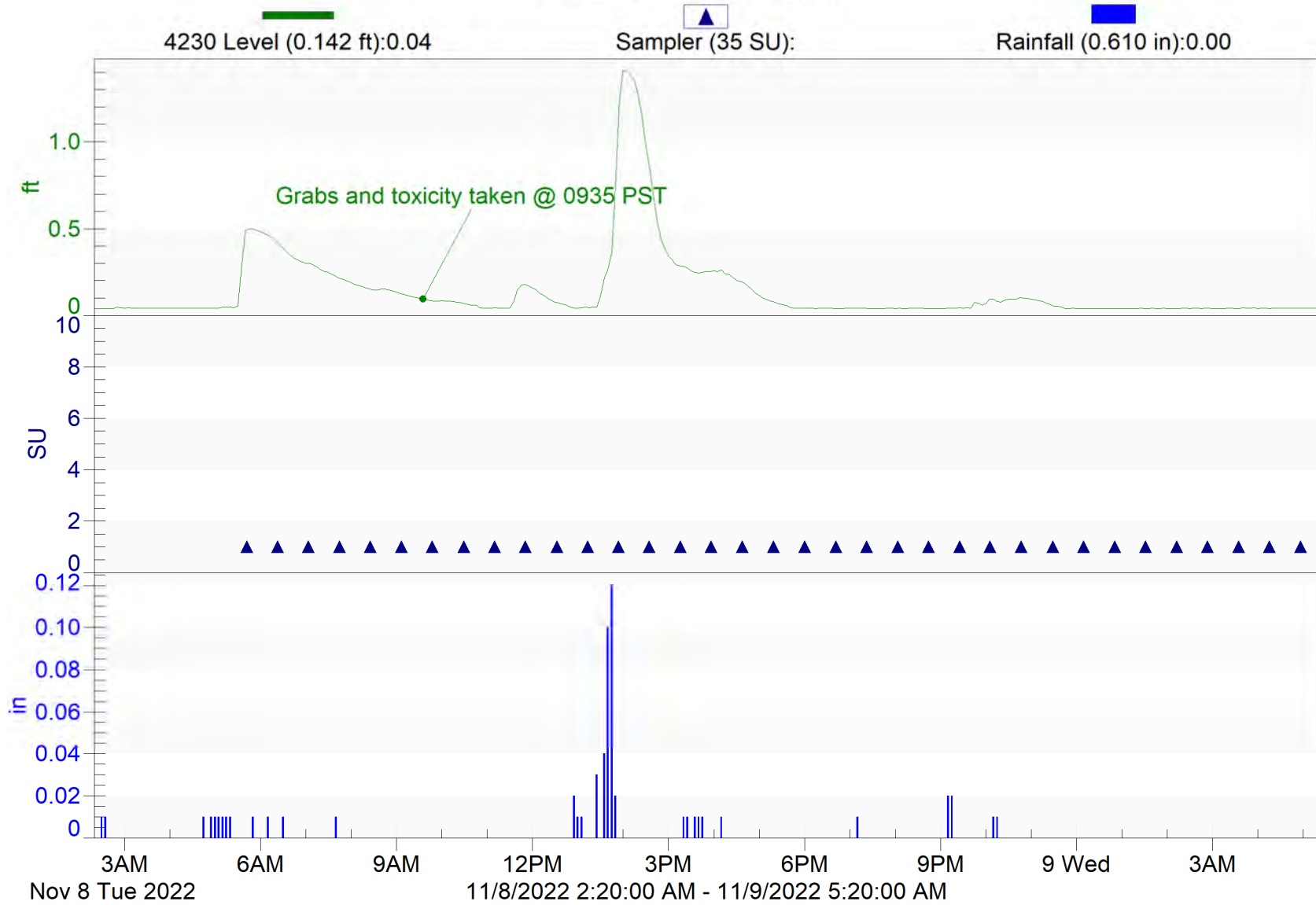
# Camarillo-1

2022/23 NPDES Event #4 (Wet)



# Fillmore-1

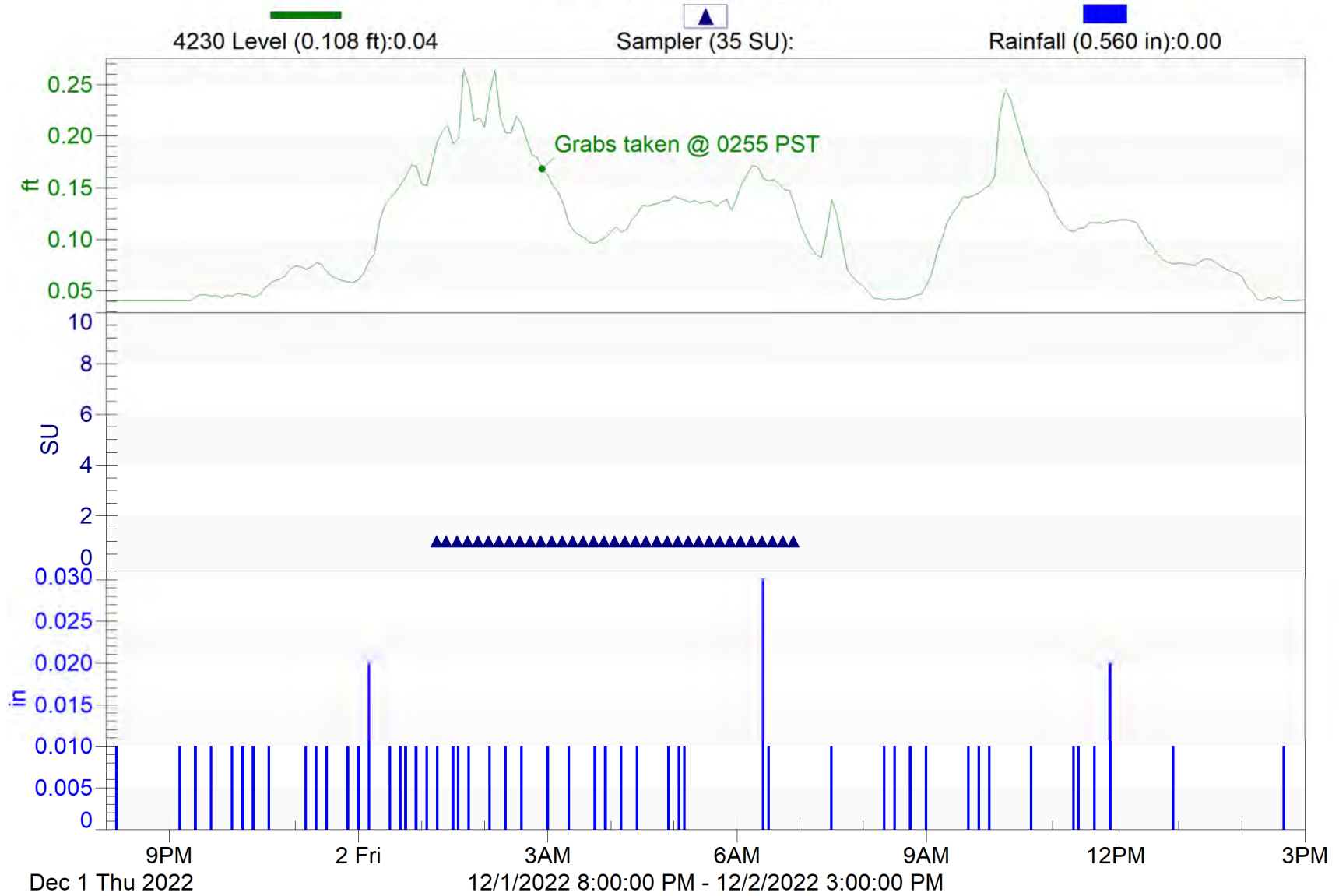
2022/23 NPDES Event #1 (Wet)





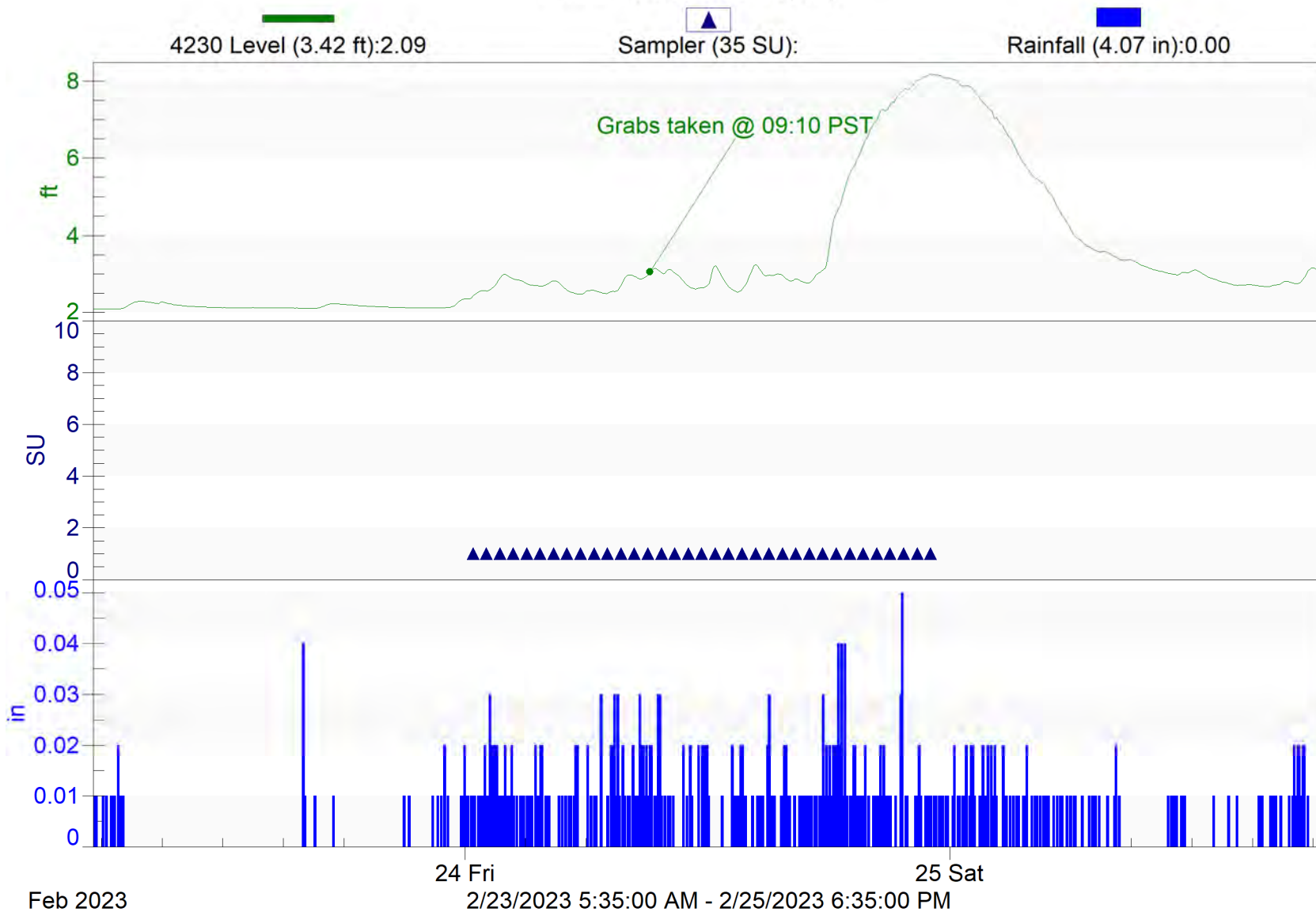
# Fillmore-1

2022/23 NPDES Event #2 (Wet)



# Fillmore-1

2022/23 NPDES Event #4 (Wet)





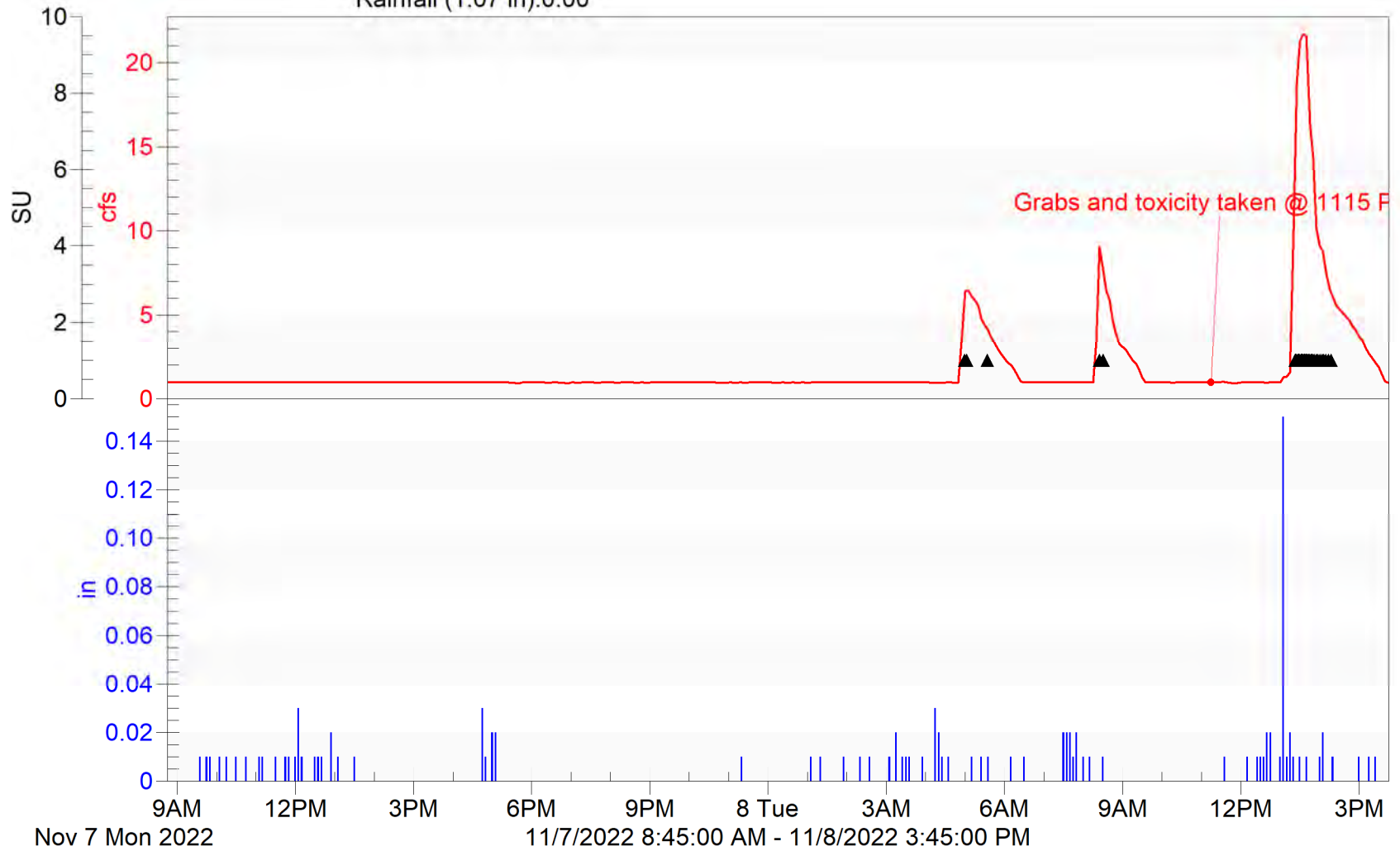
# Meiners Oaks-1

2022/23 NPDES Event #1 (Wet)

4230 Flow Rate (197544.67 cf):0.97

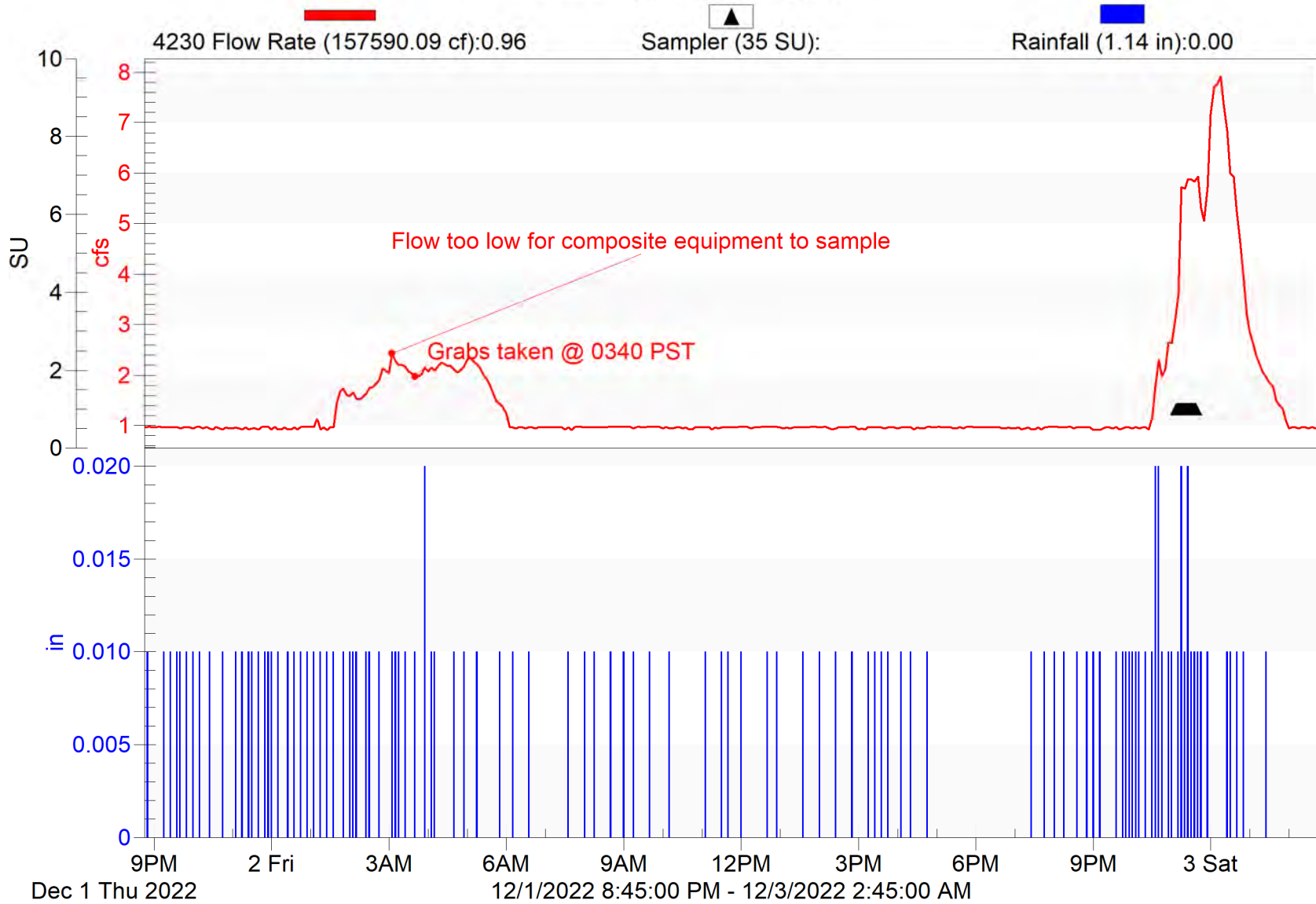
Rainfall (1.07 in):0.00

Sampler (35 SU):



# Meiners Oaks-1

2022/23 NPDES Event #2 (Wet)





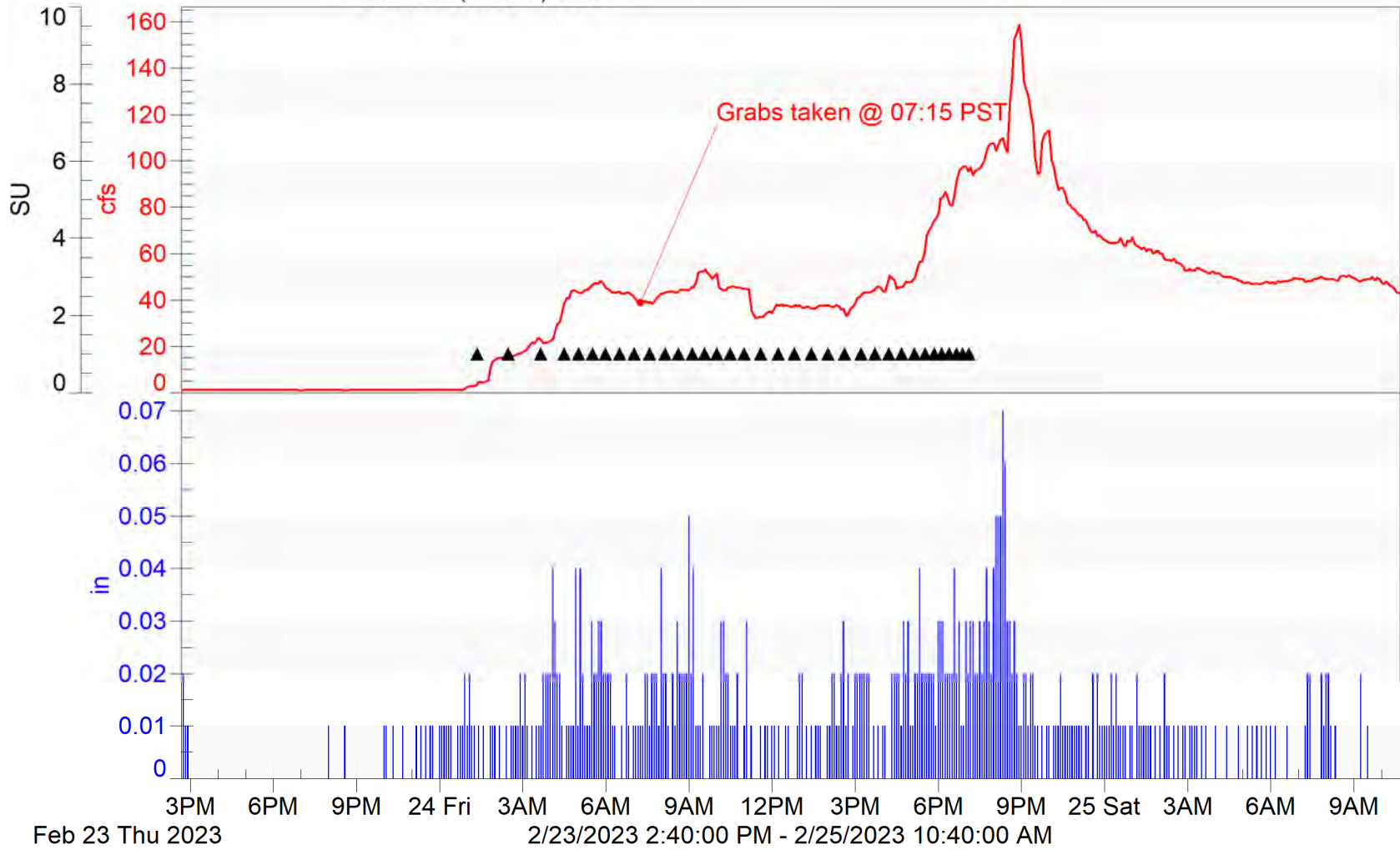
# Meiners Oaks-1

2022/23 NPDES Event #4 (Wet)

4230 Flow Rate (6493102.79 cf):0.97

Sampler (35 SU):

Rainfall (5.00 in):0.00

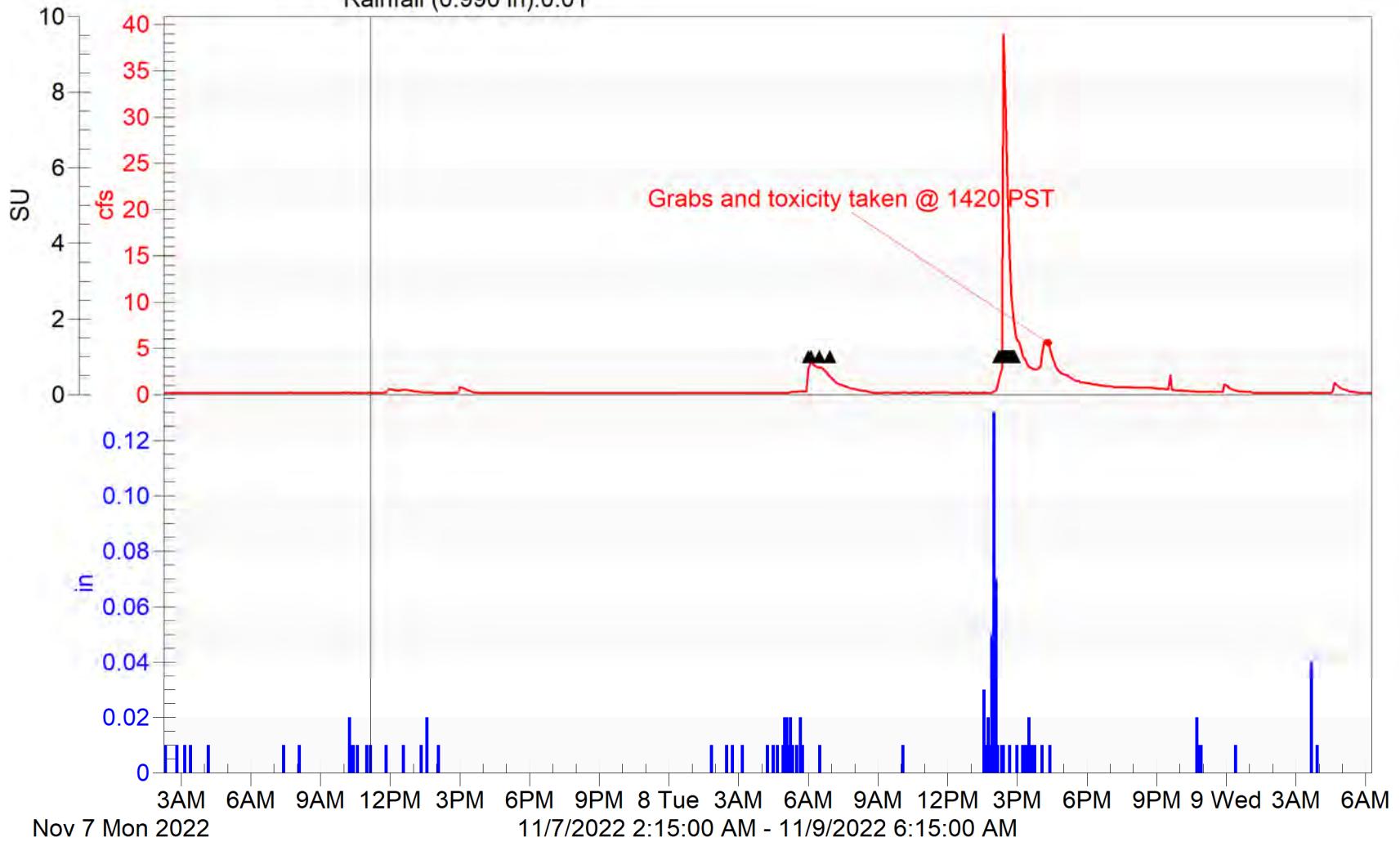


# Moorpark-1

2022/23 NPDES Event #1 (Wet)

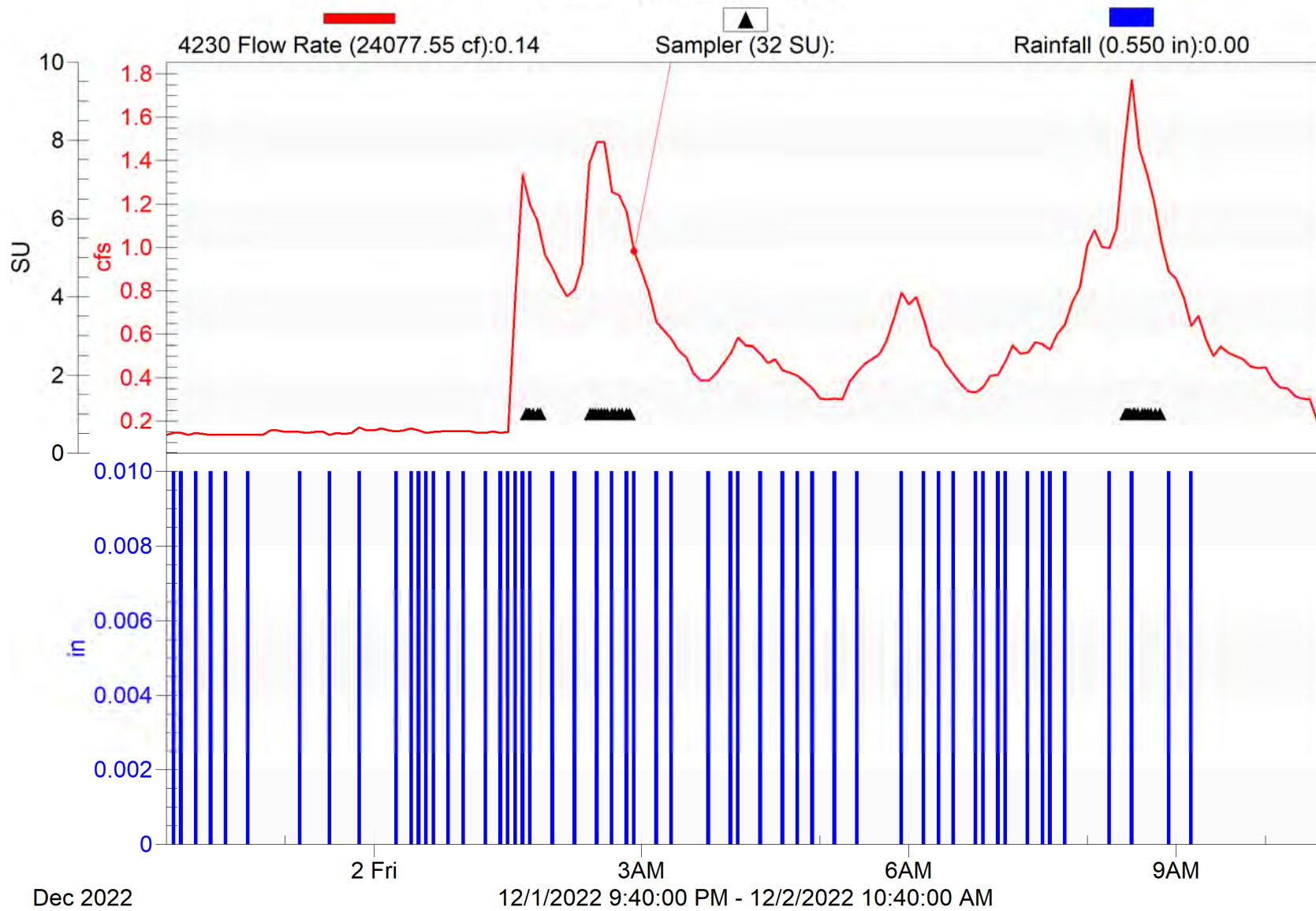
4230 Flow Rate (131391.03 cf):0.18  
Rainfall (0.990 in):0.01

Sampler (35 SU):



# Moorpark-1

2022/23 NPDES Event #2 (Wet)



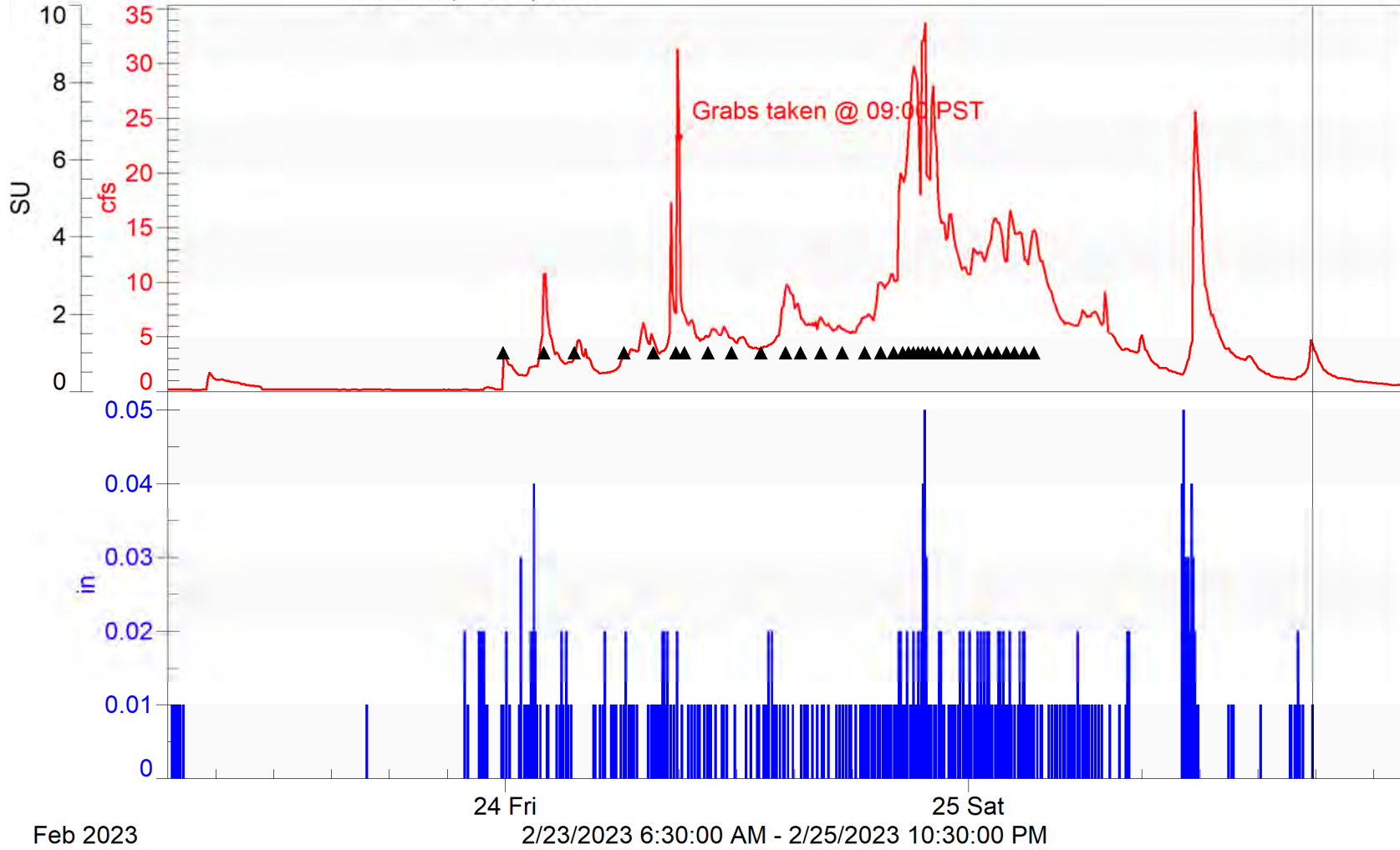


# Moorpark-1

2022/23 NPDES Event #4 (Wet)

4230 Flow Rate (1112757.95 cf):4.36  
Rainfall (3.49 in):0.01

Sampler (35 SU):



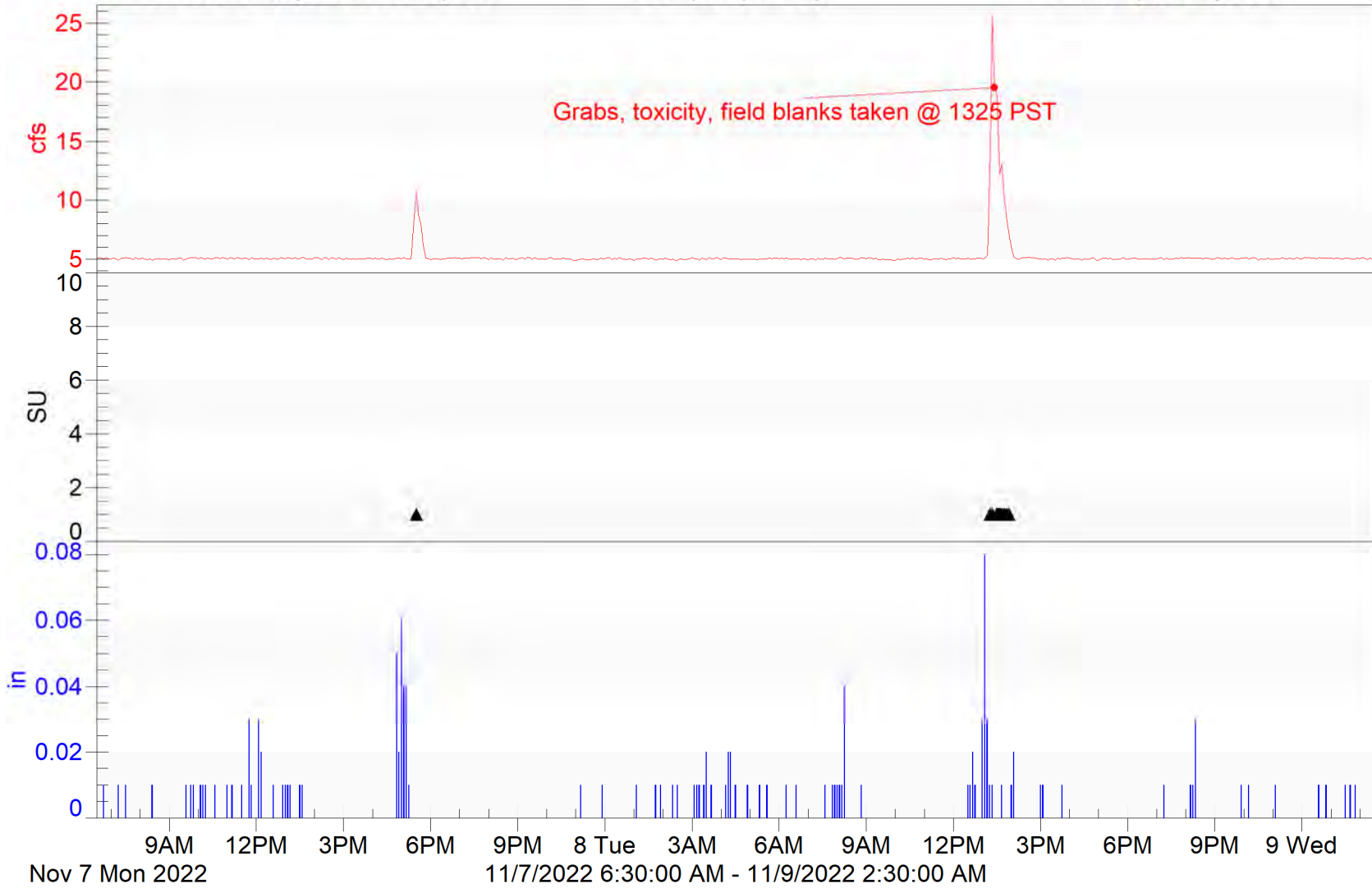
# Ojai-1

2022/23 NPDES Event #1 (Wet)

4230 Flow Rate (827025.77 cf):5.01

Sampler (17 SU):

Rainfall (1.30 in):0.00



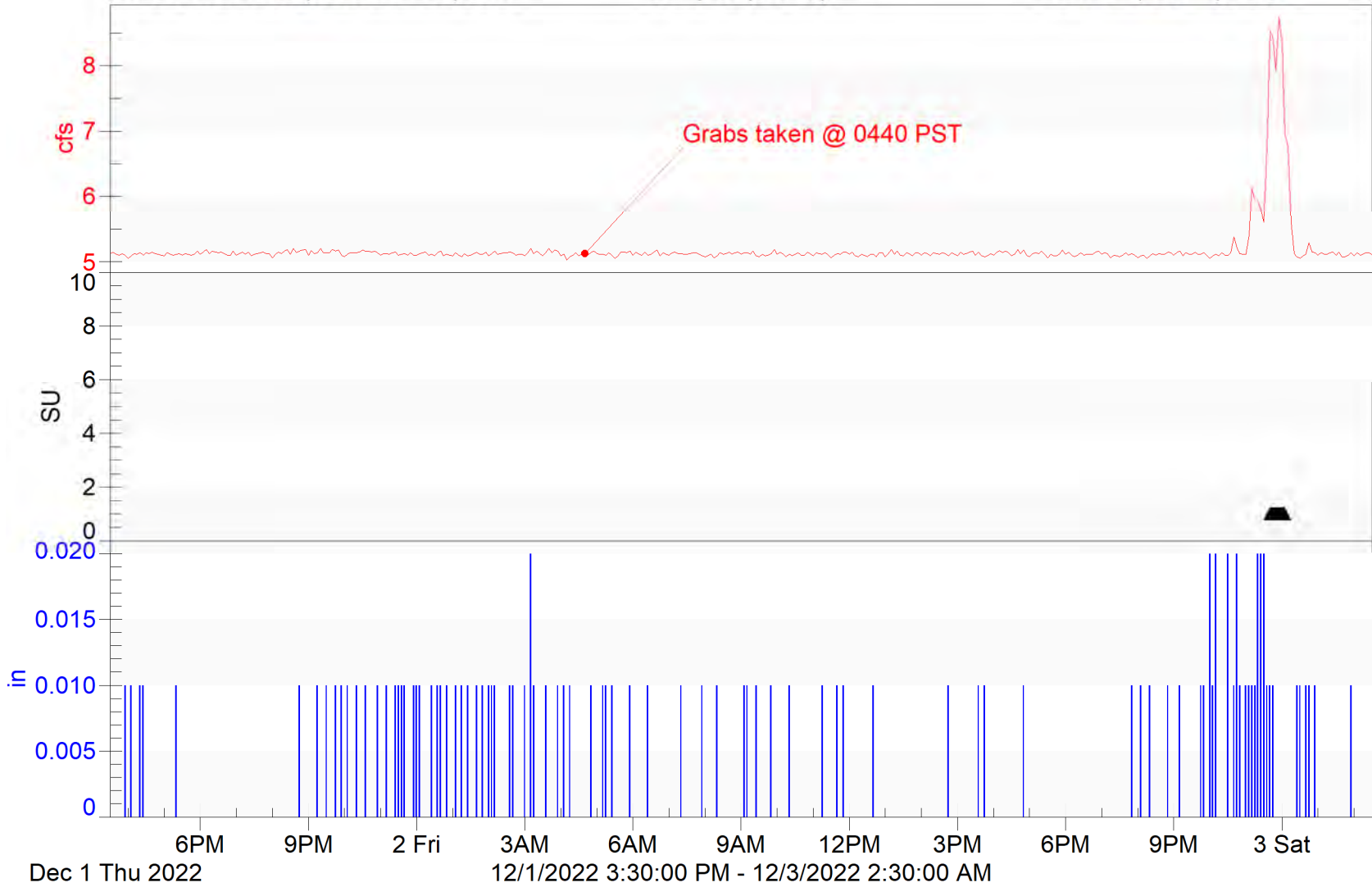
# Ojai-1

2022/23 NPDES Event #2 (Wet)

4230 Flow Rate (652902.12 cf):5.12

Sampler (35 SU):

Rainfall (1.03 in):0.00





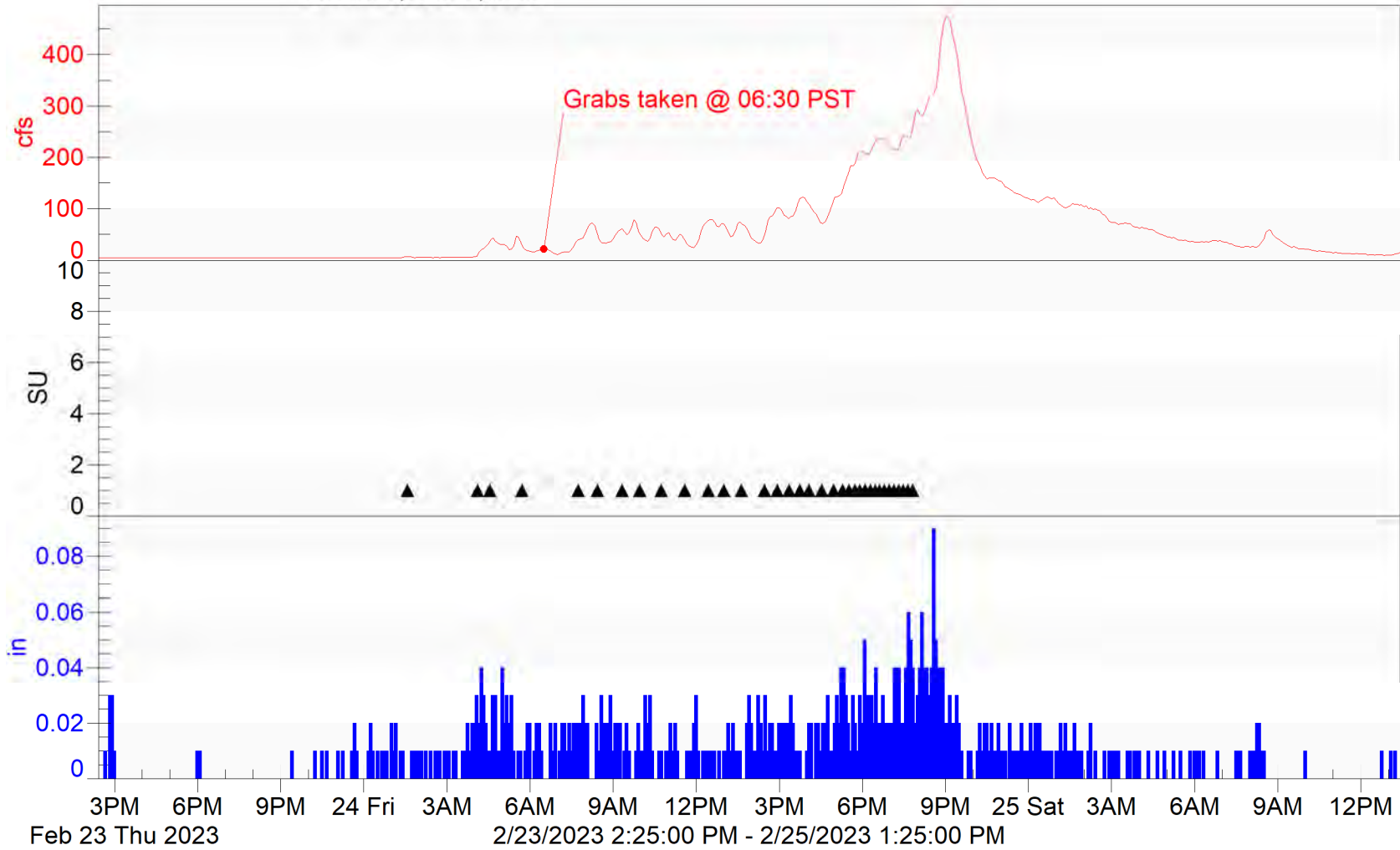
# Ojai-1

2022/23 NPDES Event #4 (Wet)

4230 Flow Rate (10975790.32 cf):5.11

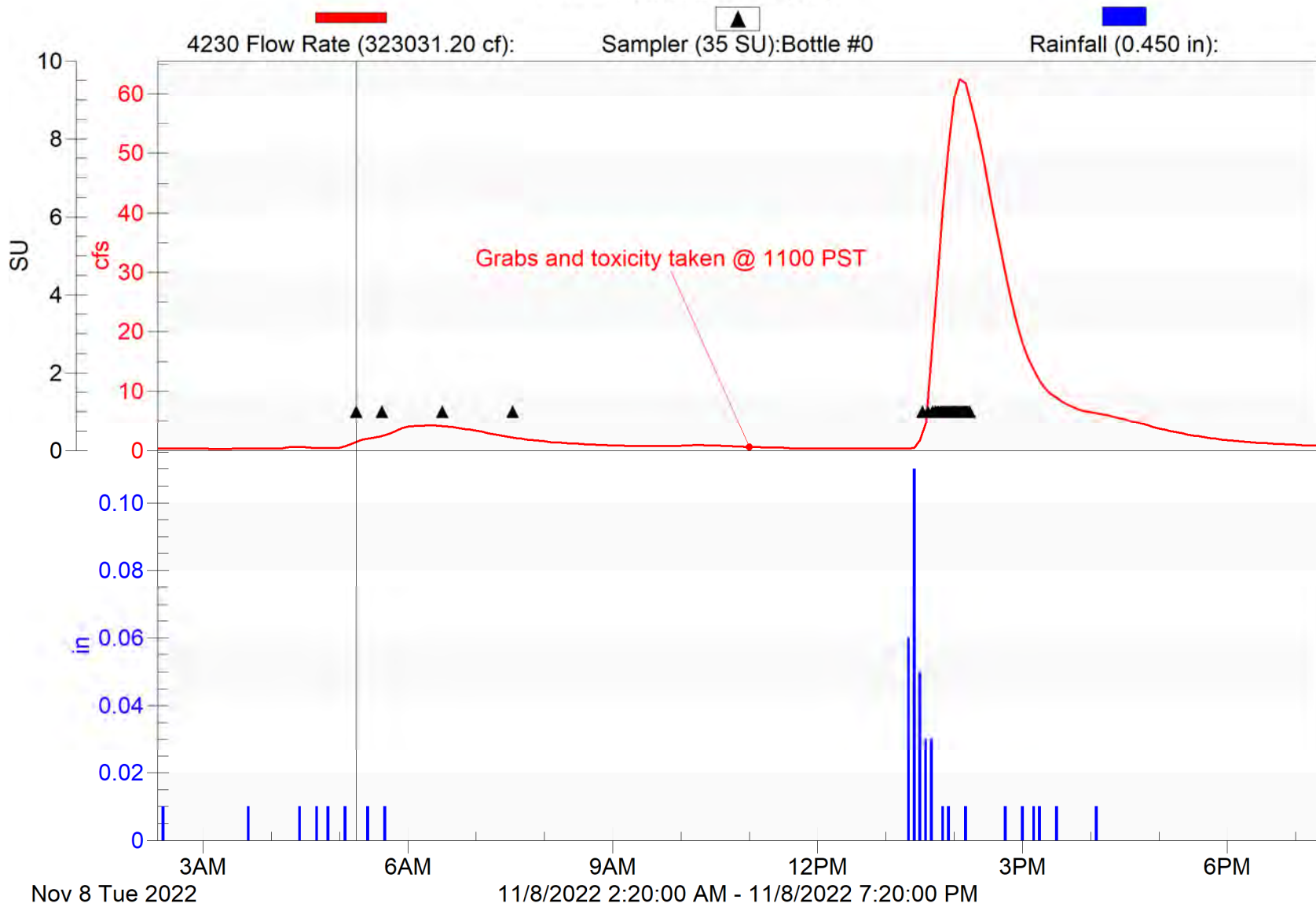
Rainfall (5.55 in):0.00

Sampler (35 SU):



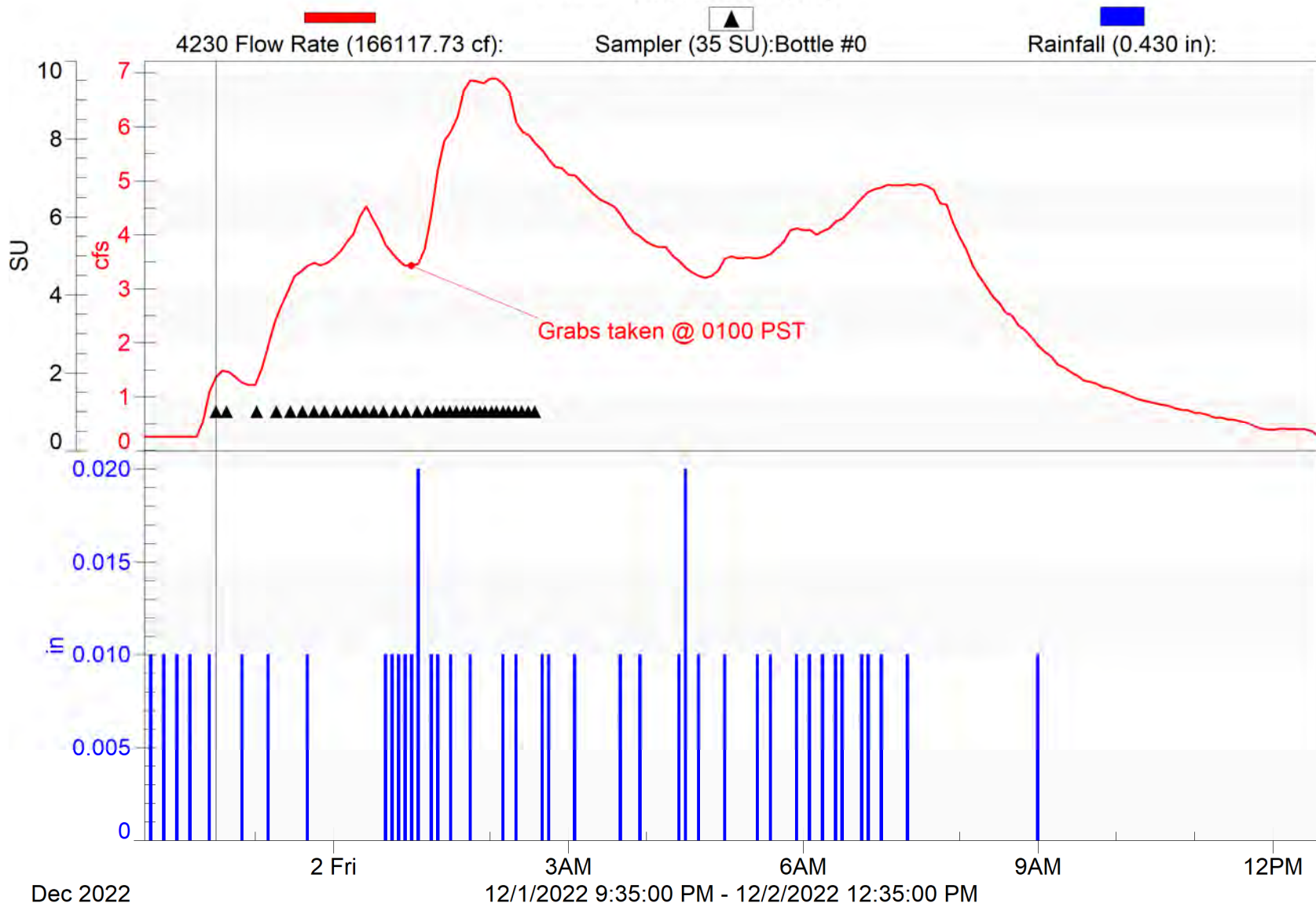
# Oxnard-1

2022/23 NPDES Event #1 (Wet)



# Oxnard-1

2022/23 NPDES Event #2 (Wet)





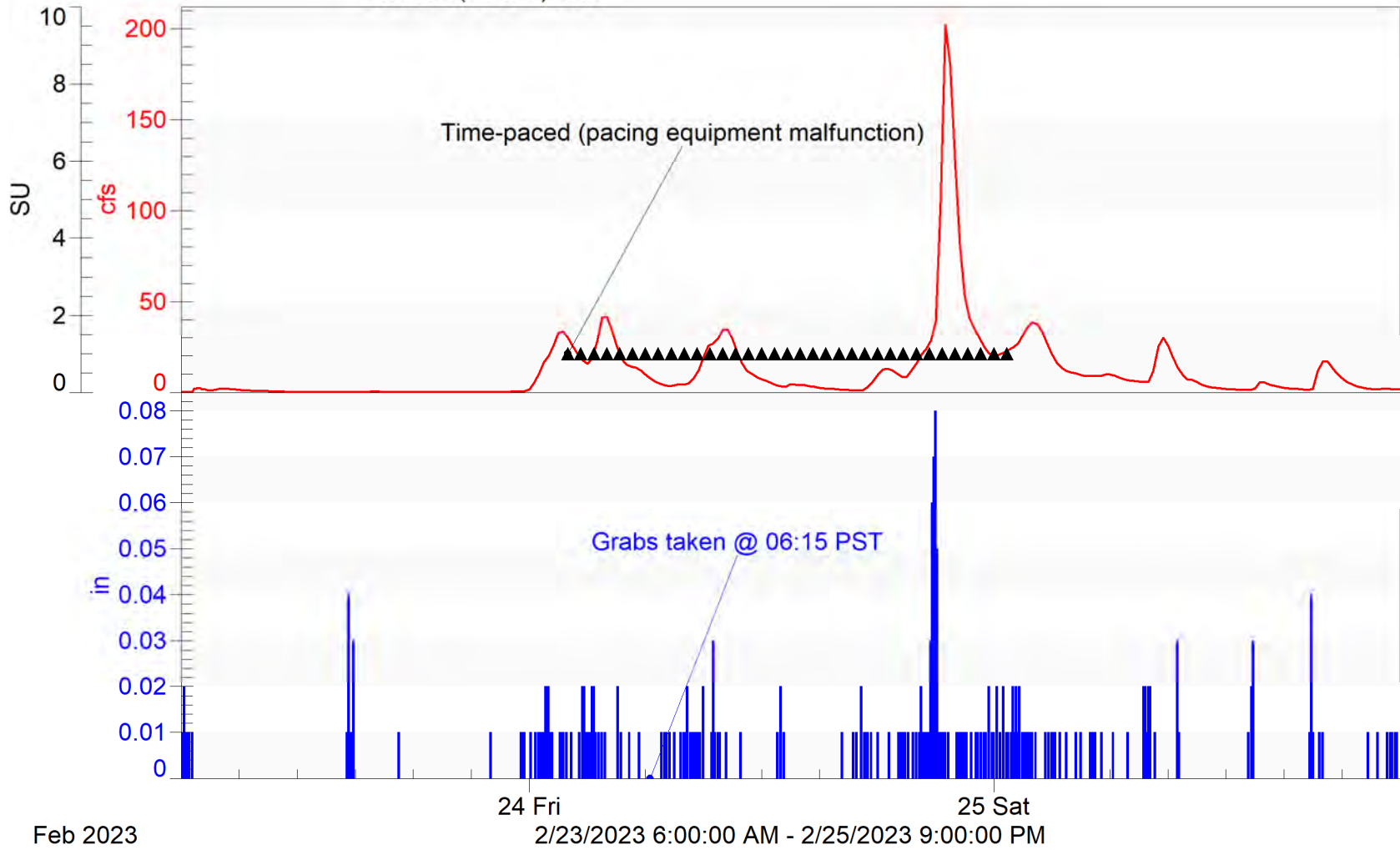
# Oxnard-1

2022/23 NPDES Event #4 (Wet)

4230 Flow Rate (2671917.72 cf):0.26

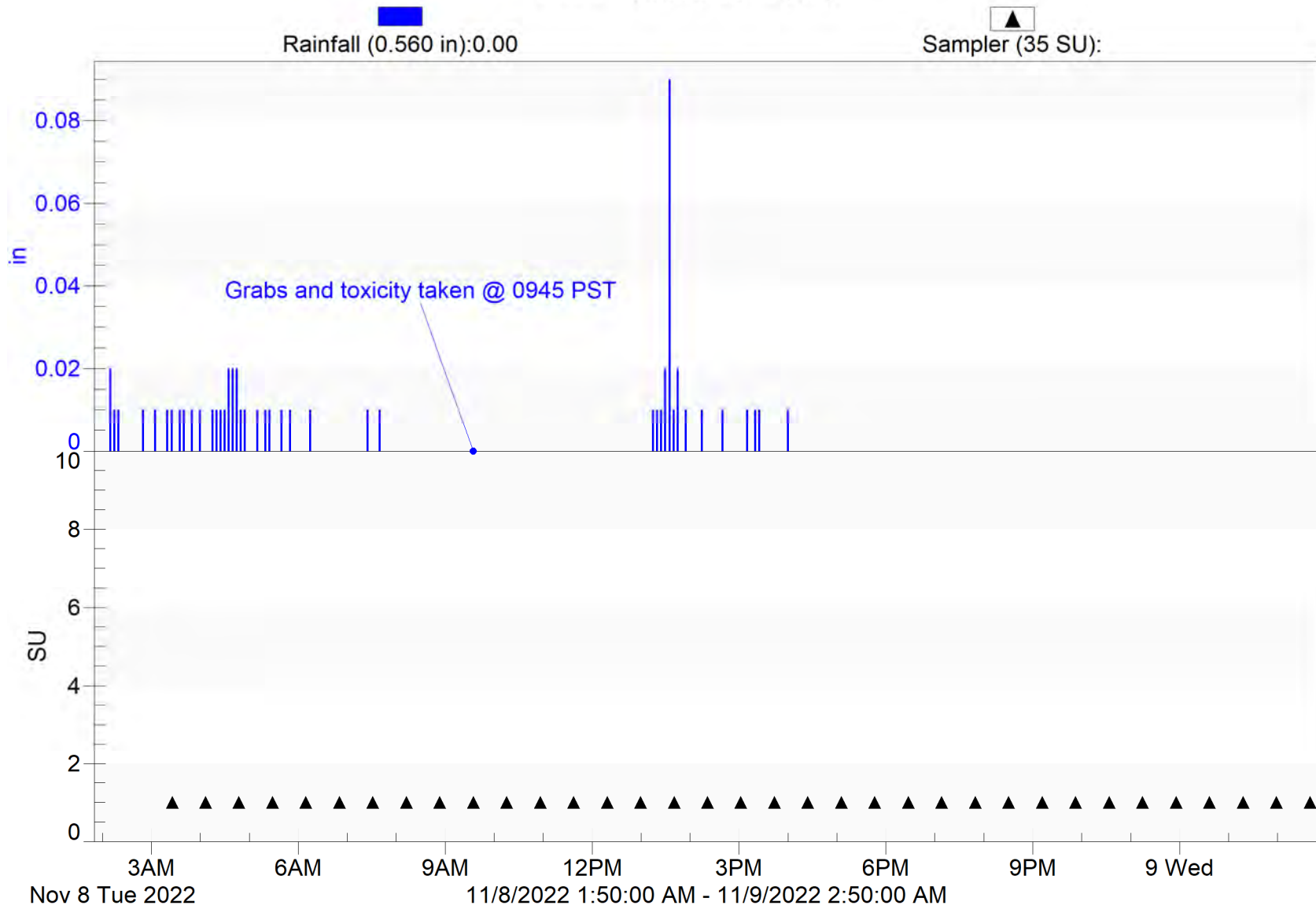
Rainfall (2.49 in):0.00

Sampler (35 SU):



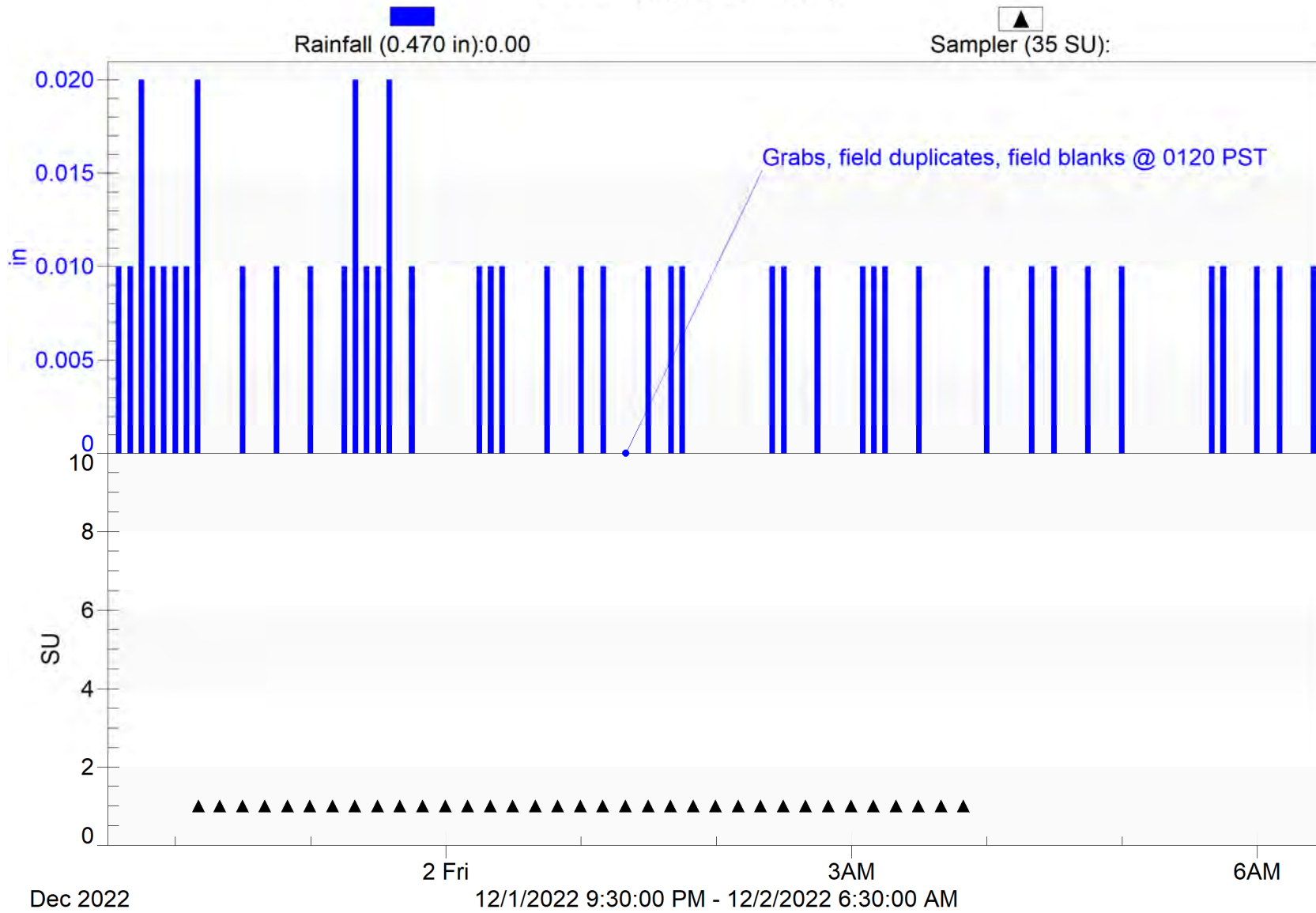
# Port Hueneme-1

2022/23 NPDES Event #1 (Wet)



# Port Hueneme-1

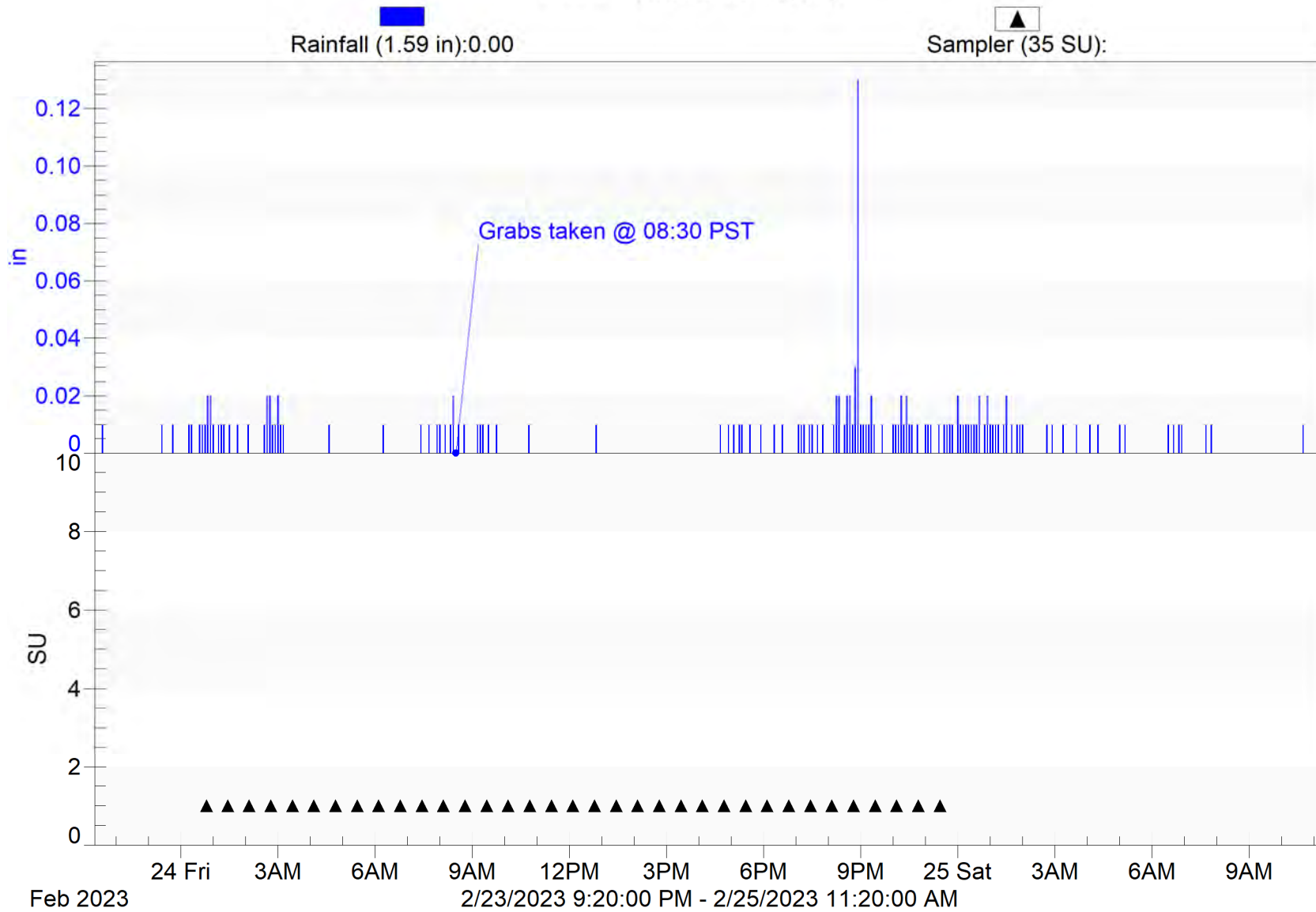
2022/23 NPDES Event #2 (Wet)





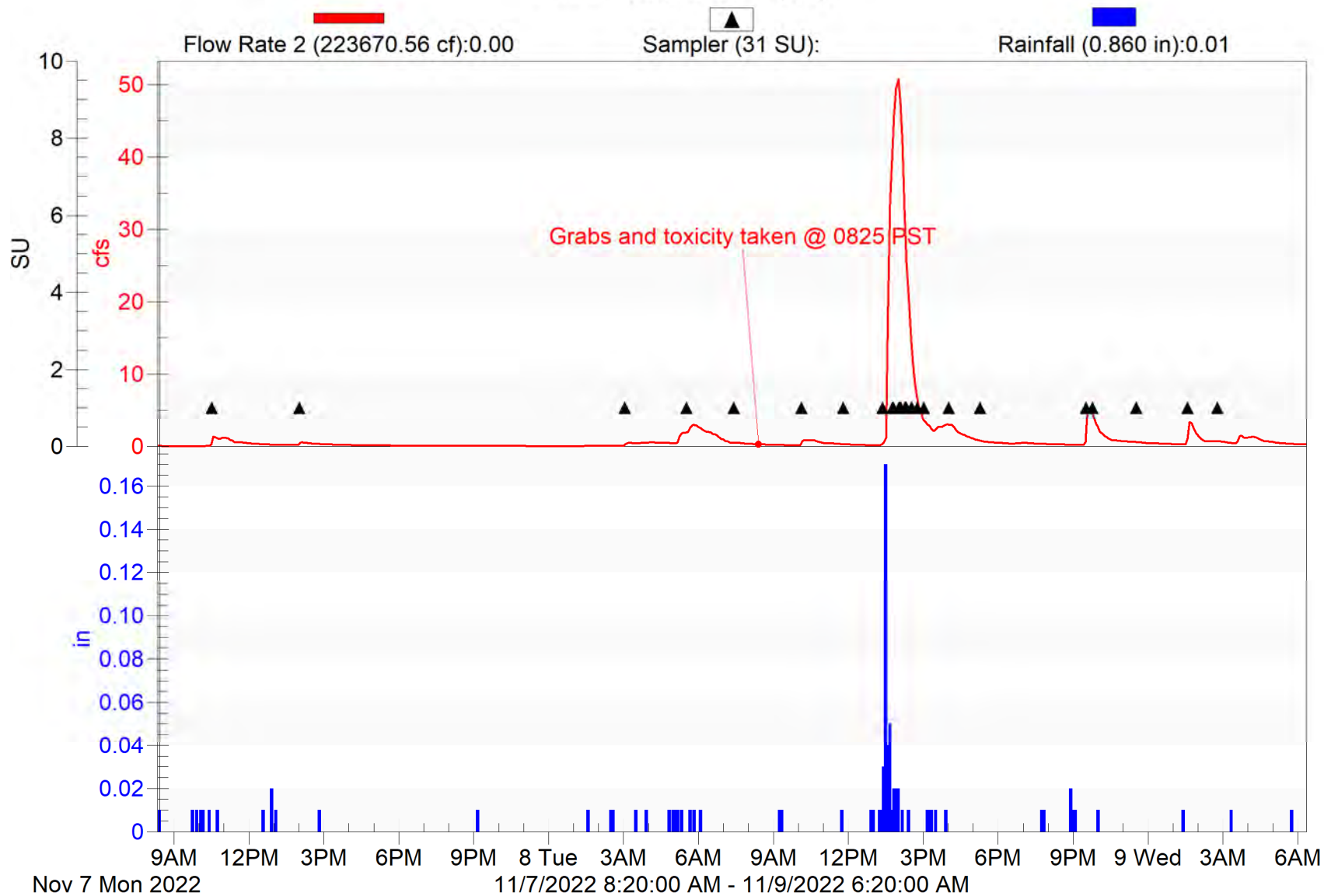
# Port Hueneme-1

2022/23 NPDES Event #4 (Wet)



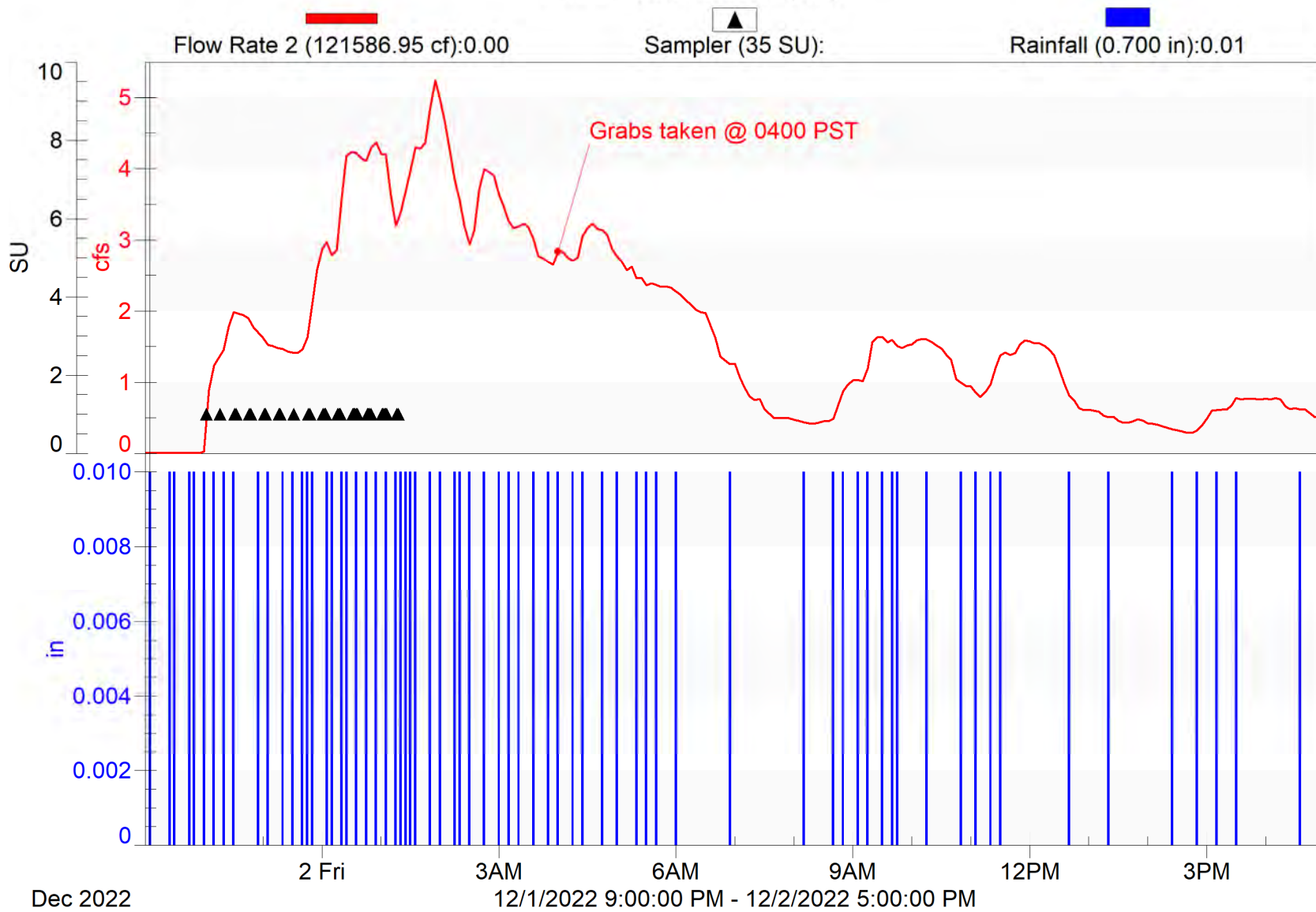
# Santa Paula-1

2022/23 NPDES Event #1 (Wet)



# Santa Paula-1

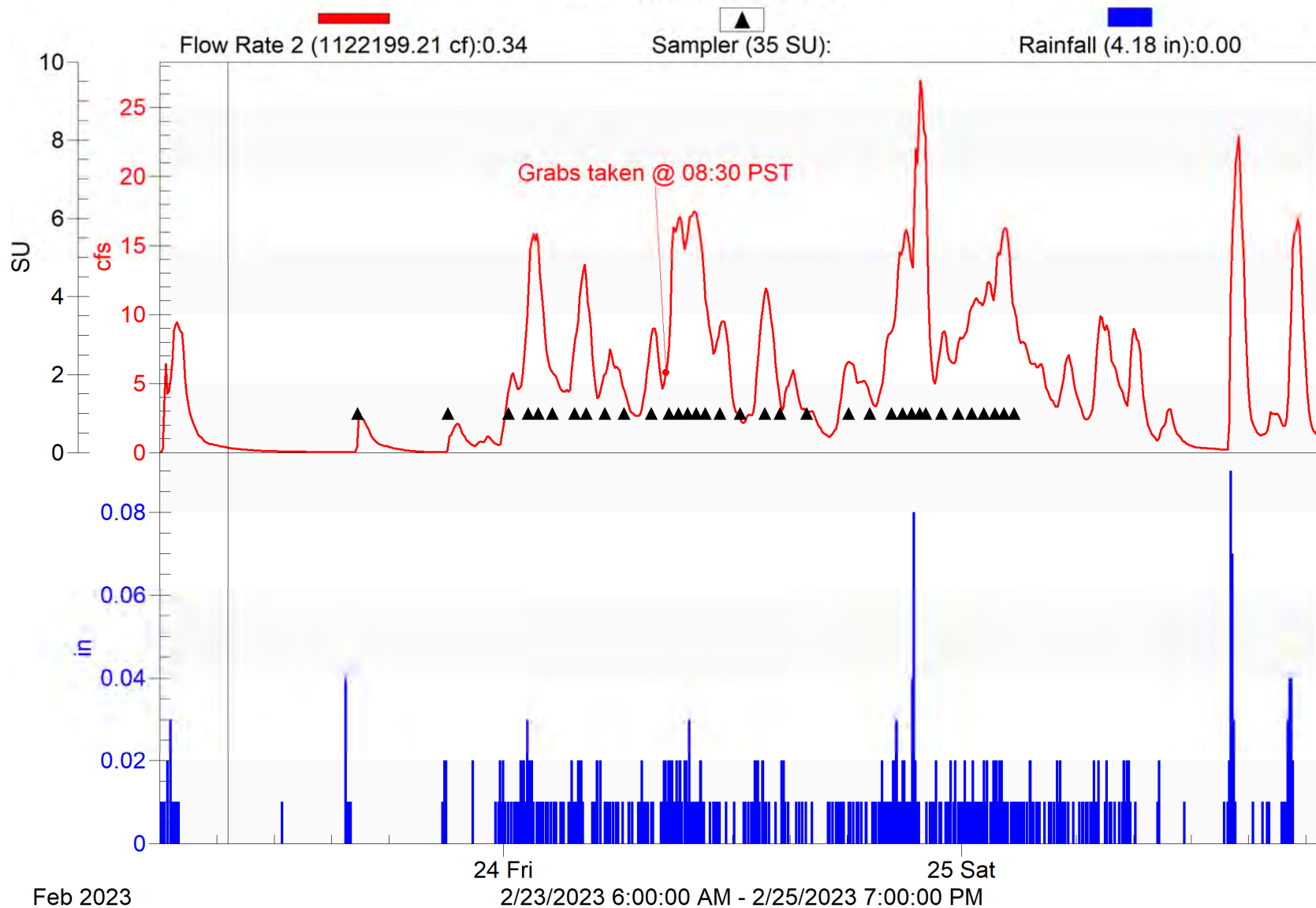
2022/23 NPDES Event #2 (Wet)





# Santa Paula-1

2022/23 NPDES Event #4 (Wet)



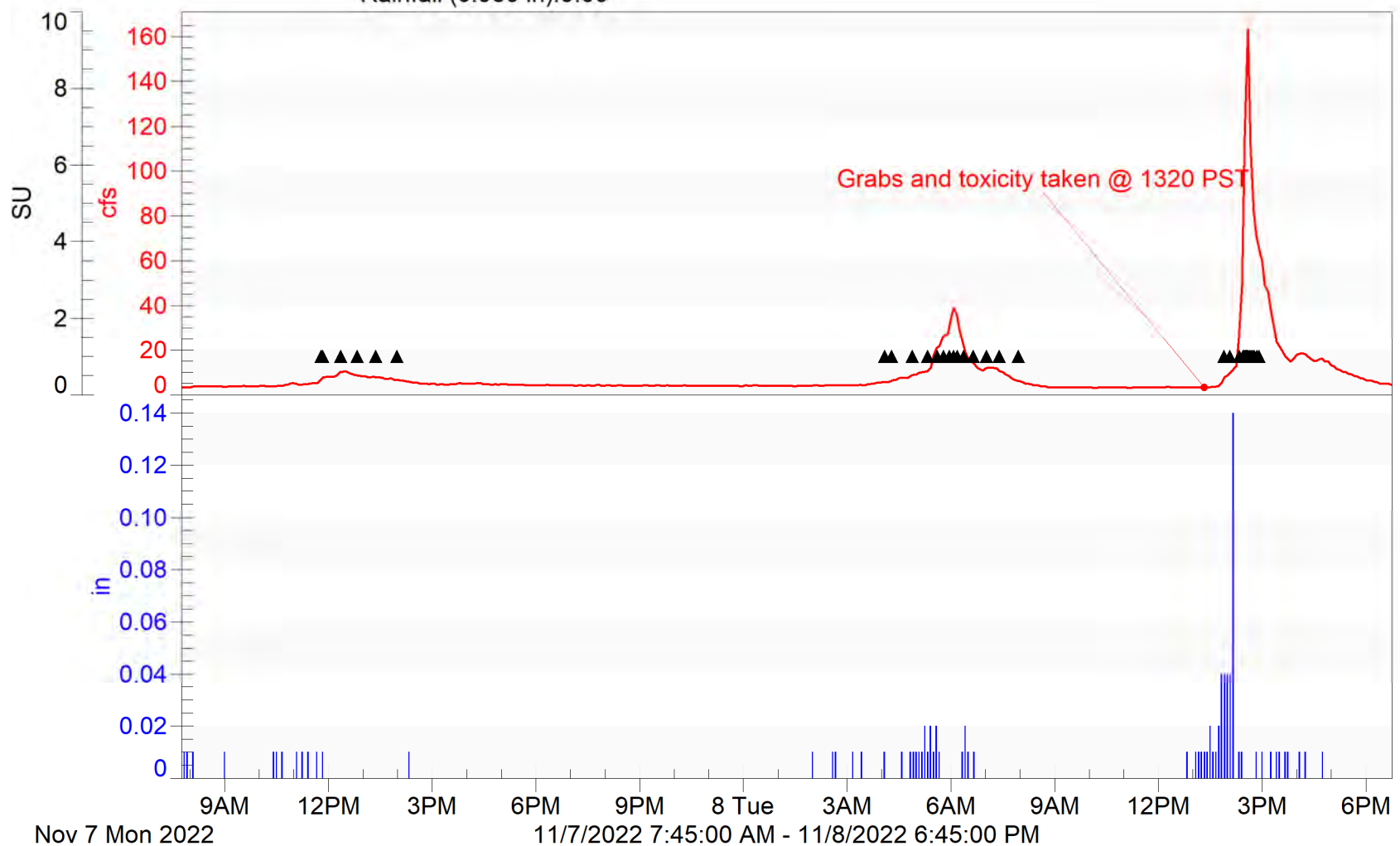
# Simi Valley-1

2022/23 NPDES Event #1 (Wet)

4230 Flow Rate (1050291.37 cf):3.27

Rainfall (0.930 in):0.00

Sampler (35 SU):



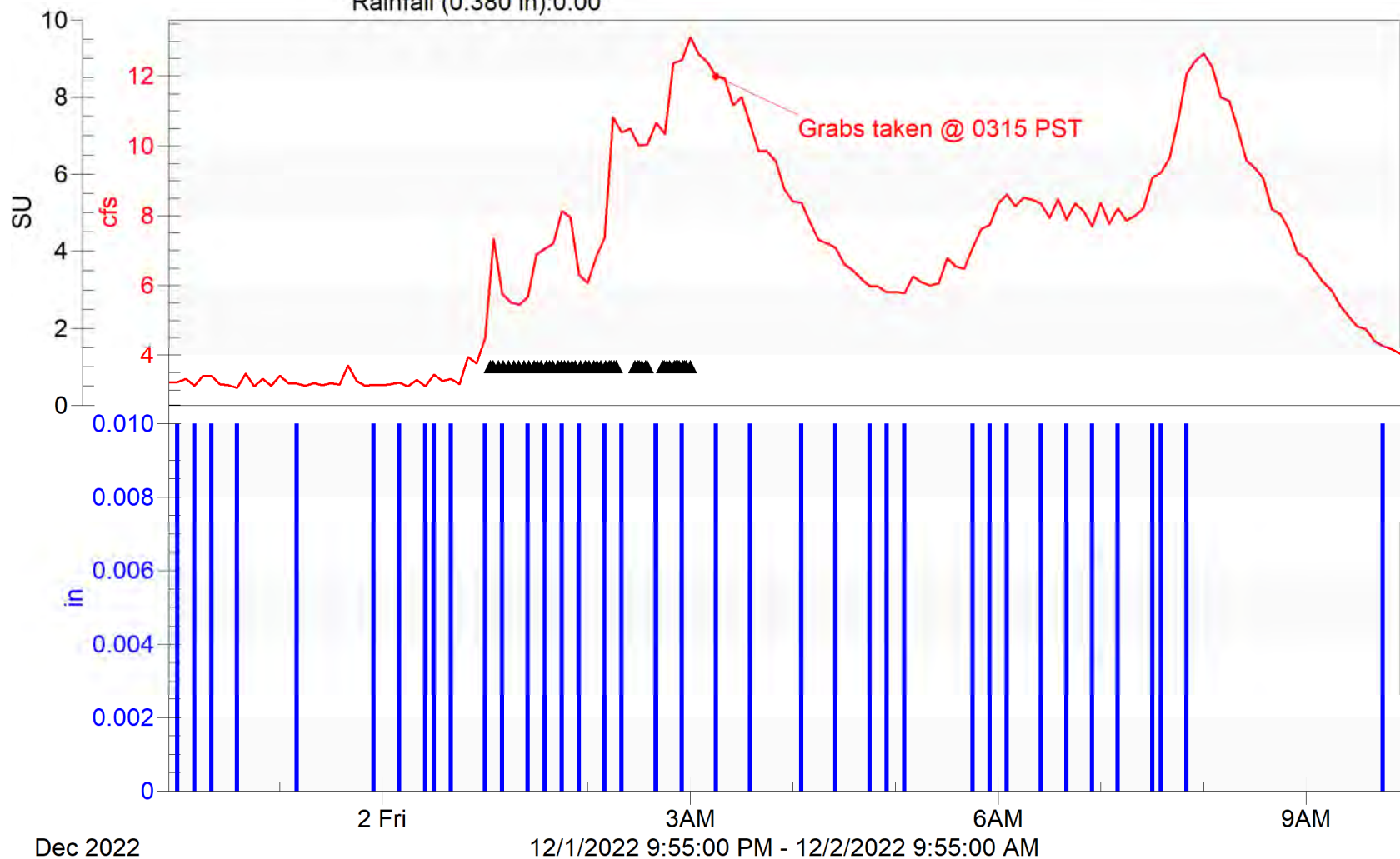
# Simi Valley-1

2022/23 NPDES Event #2 (Wet)

4230 Flow Rate (299218.75 cf):3.21

Sampler (50 SU):

Rainfall (0.380 in):0.00





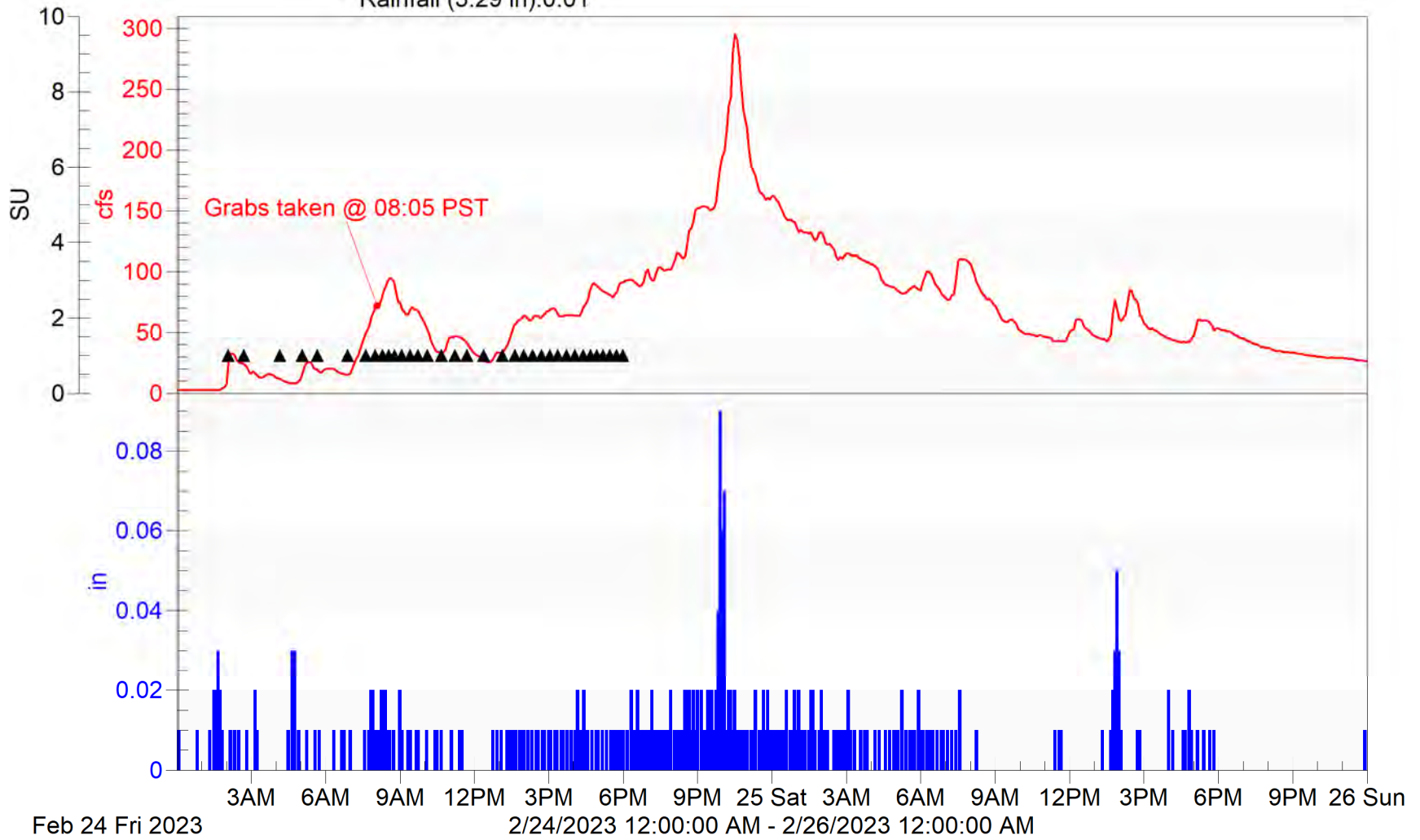
# Simi Valley-1

2022/23 NPDES Event #4 (Wet)

4230 Flow Rate (11836122.35 cf):2.17

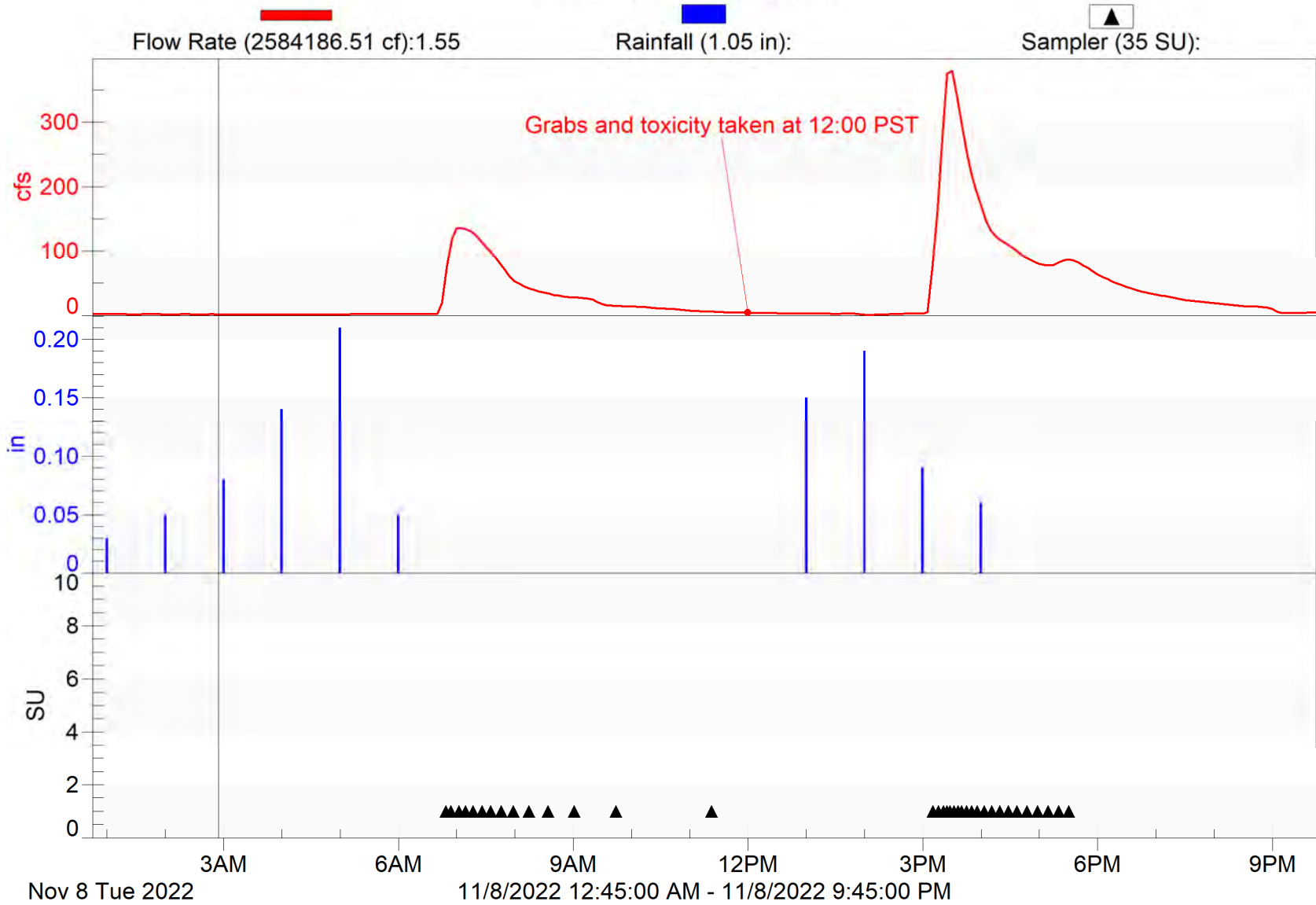
Sampler (35 SU):

Rainfall (3.29 in):0.01



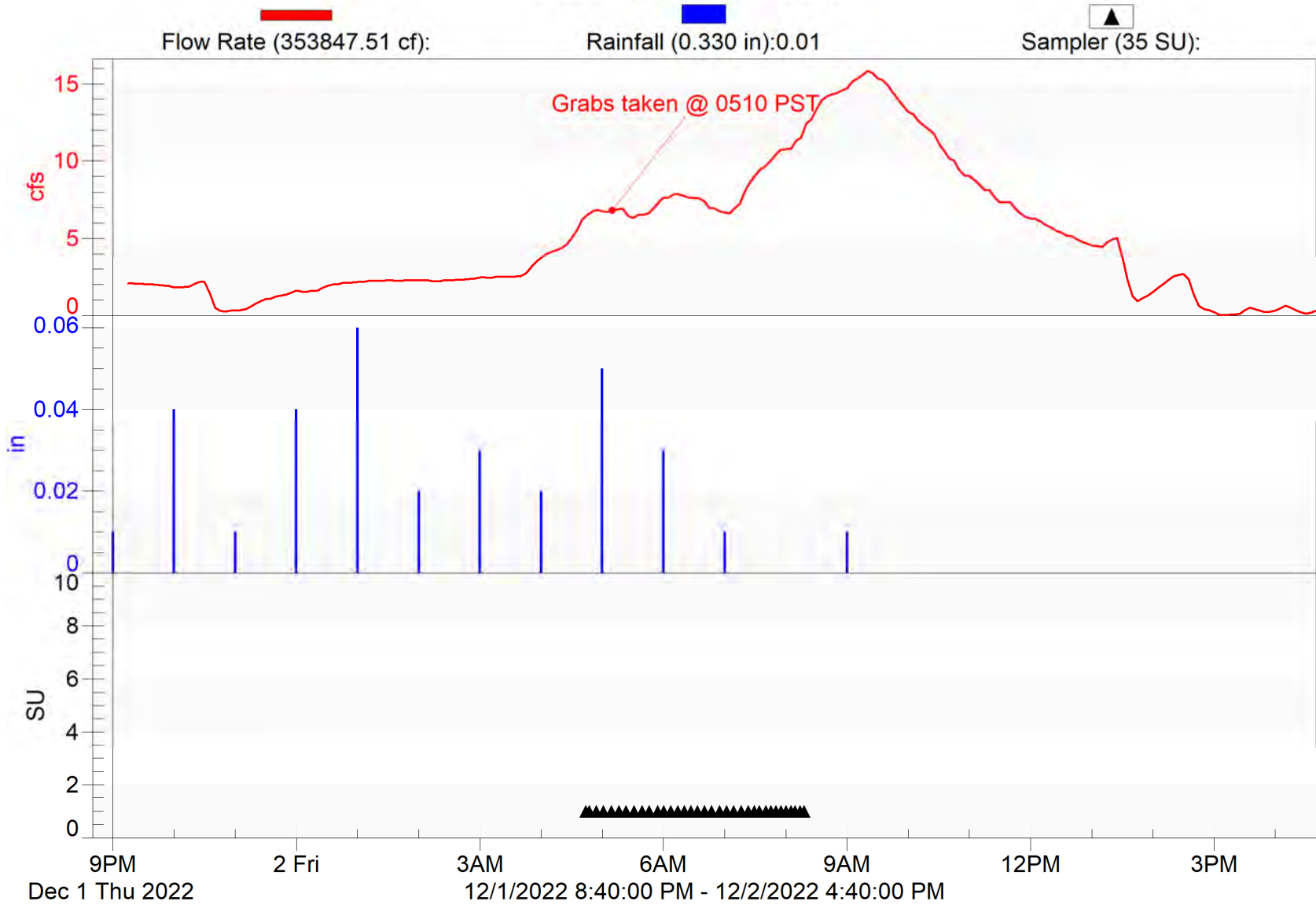
# Thousand Oaks-1

2022/23 NPDES Event #1 (Wet)



# Thousand Oaks-1

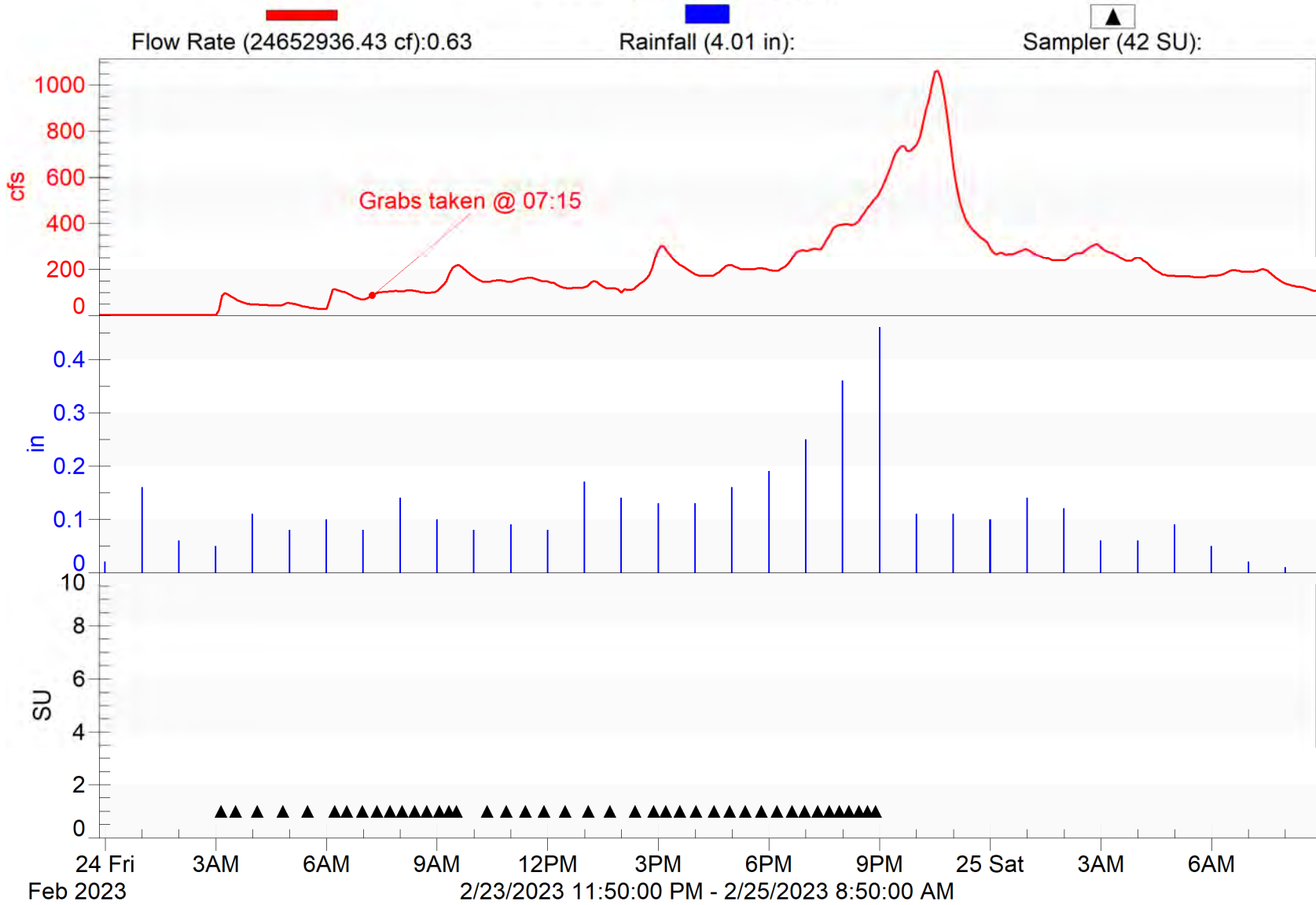
2022/23 NPDES Event #2 (Wet)





# Thousand Oaks-1

2022/23 NPDES Event #4 (Wet)

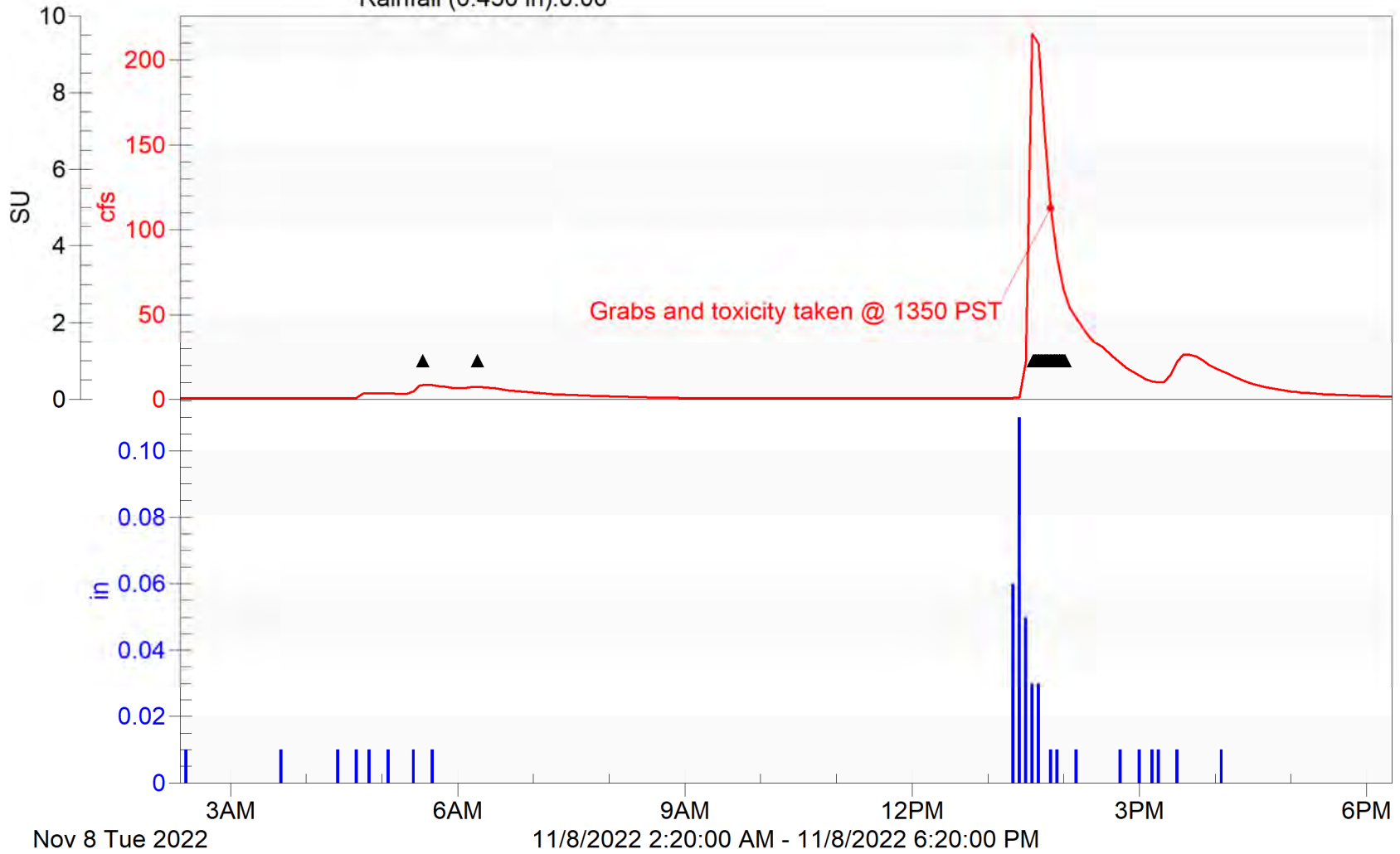


# Ventura-1

2022/23 NPDES Event #1 (Wet)

4230 Flow Rate (551496.48 cf):0.52  
Rainfall (0.450 in):0.00

Sampler (35 SU):



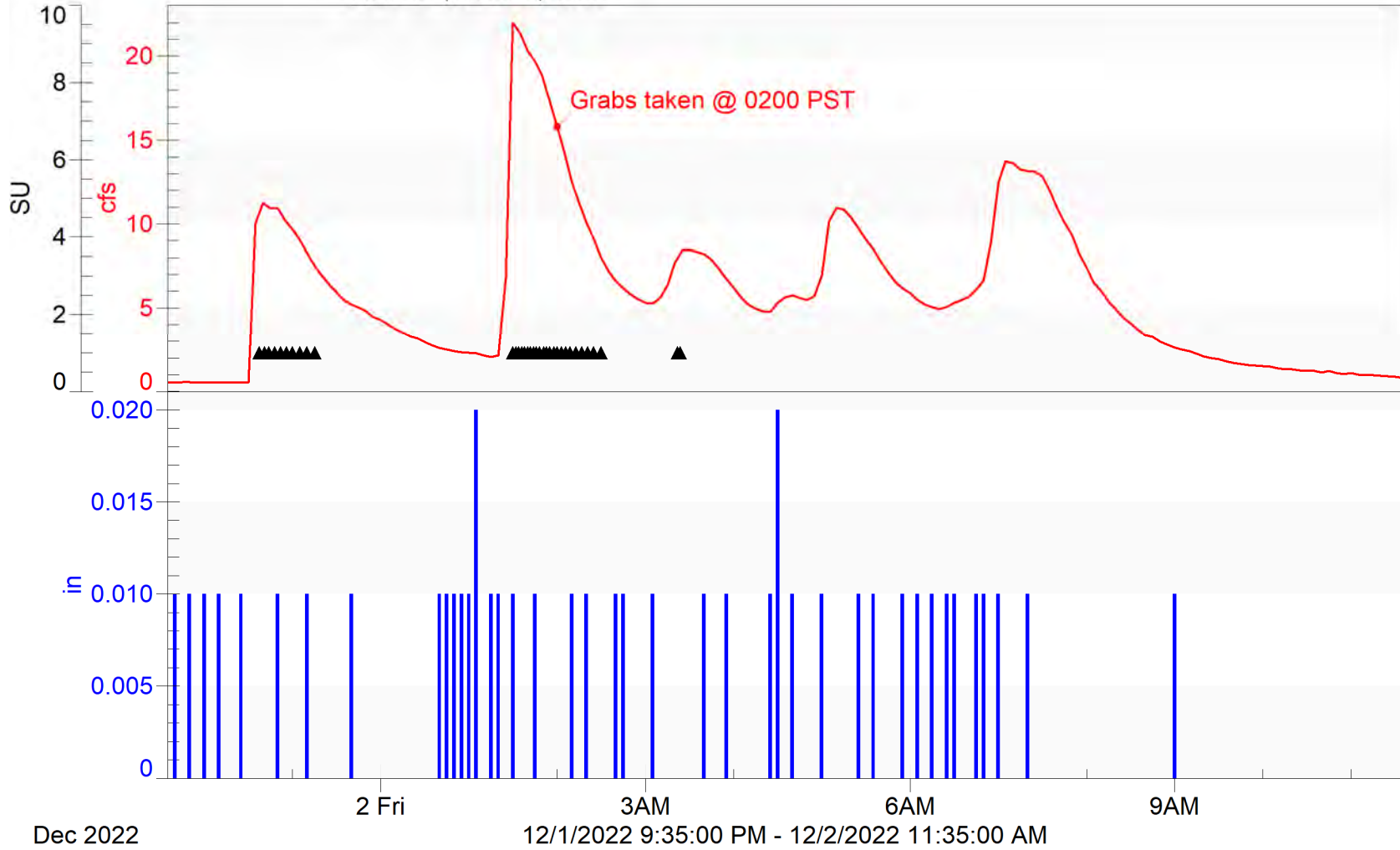
# Ventura-1

2022/23 NPDES Event #2 (Wet)

4230 Flow Rate (298275.44 cf):0.54

Rainfall (0.430 in):0.00

Sampler (35 SU):





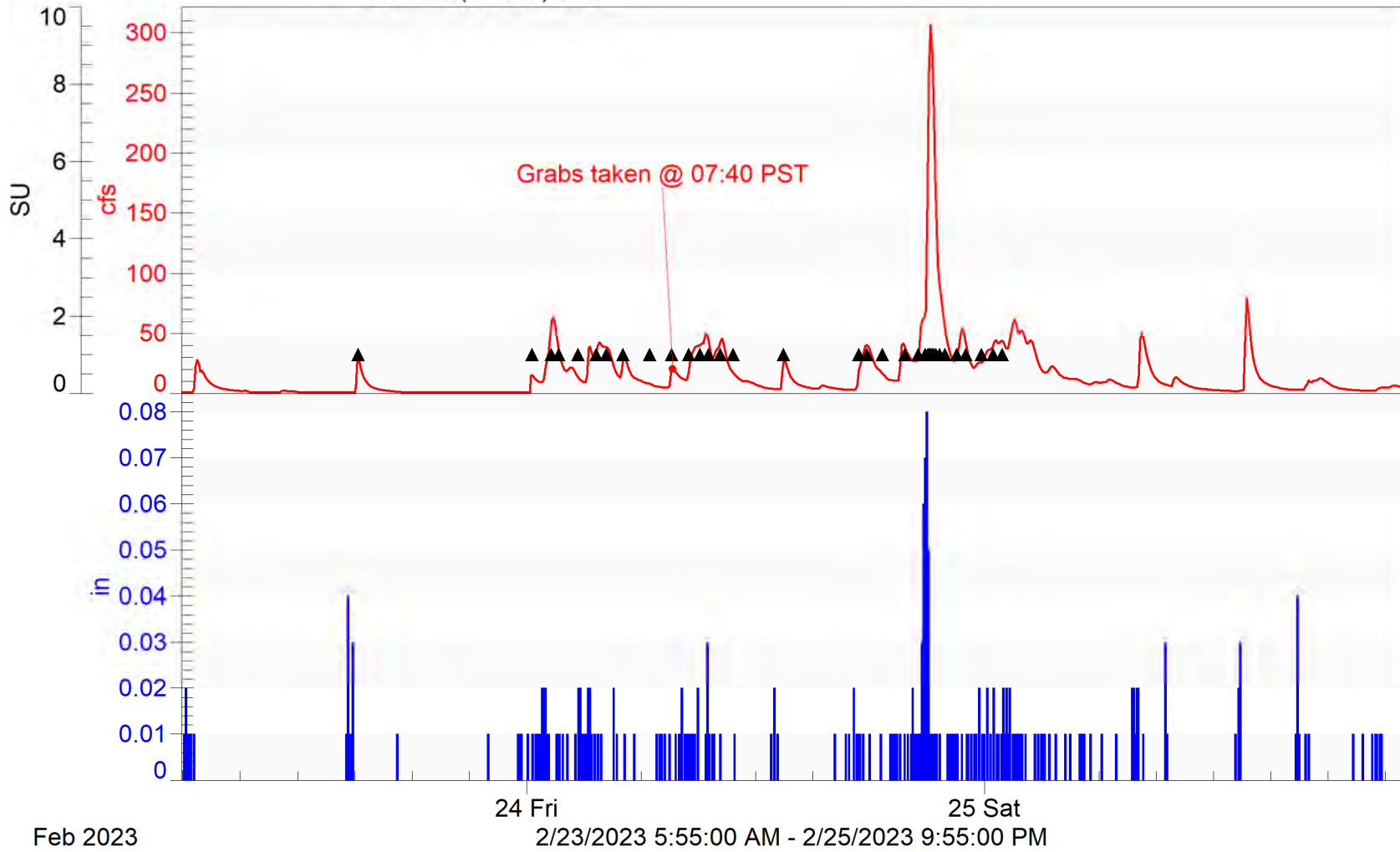
# Ventura-1

2022/23 NPDES Event #4 (Wet)

4230 Flow Rate (3530388.73 cf):0.52

Rainfall (2.49 in):0.00

Sampler (35 SU):



Feb 2023

24 Fri  
2/23/2023 5:55:00 AM - 2/25/2023 9:55:00 PM  
25 Sat

## **Appendix C. NRCS Curve Number Methodology Discussion**



# Ventura County Watershed Protection District

## Planning & Regulatory Hydrology Section

### MEMORANDUM

---

DATE: September 4, 2009 Updated August 12, 2010

TO: Tommy Liddell

VIA: Bruce Rindahl

FROM: Mark Bandurraga

**SUBJECT: NPDES Monitoring Site Yield Evaluation**

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

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

#### **Curve Number Calculation Methodology**

##### Land Use Data

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

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



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

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

Soils Information

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

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

Combined Soils and Land Use Information and Weighted Curve Numbers

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

The results are shown in Table 2.

Table 2: Storm Yield Results- Weighted Average Curve Numbers

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

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

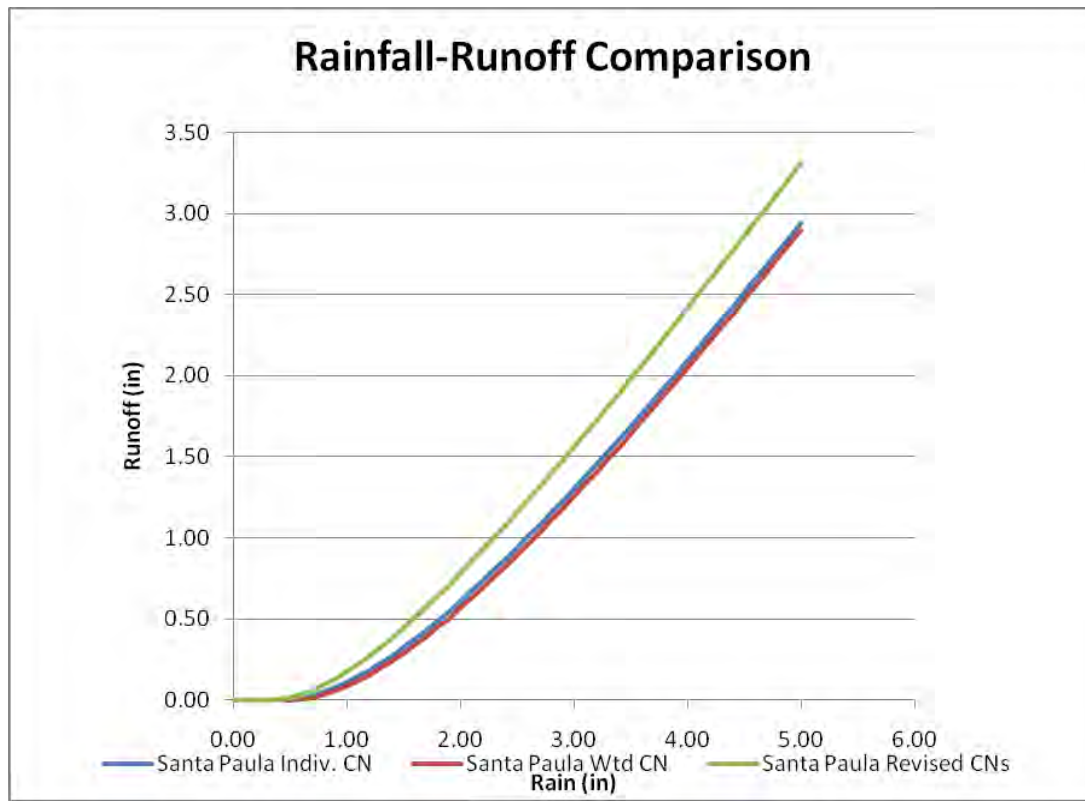
Table 3: Storm Yield Results- Weighted Average Curve Numbers with Updated CNs

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

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

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

Figure 1



Conclusions and Limitations

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



**List of Files in Work Directory K:\PR\hydrology\Watersheds\NPDES\Monitoring\_Sites**

Filename	Description
GIS	Contains GIS files used in evaluation
GIS2010	Contains 2010 GIS files used in updated evaluation
ClippedLandUse.mdb	Geodatabase with land uses clipped to watershed boundaries provided by WQ section
*_SelectedWatershed.shp	shapefiles showing boundaries of monitoring watersheds
*soils.shp	soils shapefiles clipped to watershed boundaries
*soilsunion.shp	Union of soils and land use data shapefile for watersheds
Allsoil.shp	VCWPD soils shapefile showing numbers for hydrology calcs
NPDES_MonitoringSitesR unoff9-09.xls	9-09 CN data
NPDES_MonitoringSitesR unoff8-10.xls	8-10 updated analysis for 11 sites total
NPDES_MonitoringSitesR unoff8-10RevCNs.xls	8-10 analysis using revised CNs
MonitoringSites9-09.mxd	ArcMap project file for analysis

# Ventura Watershed

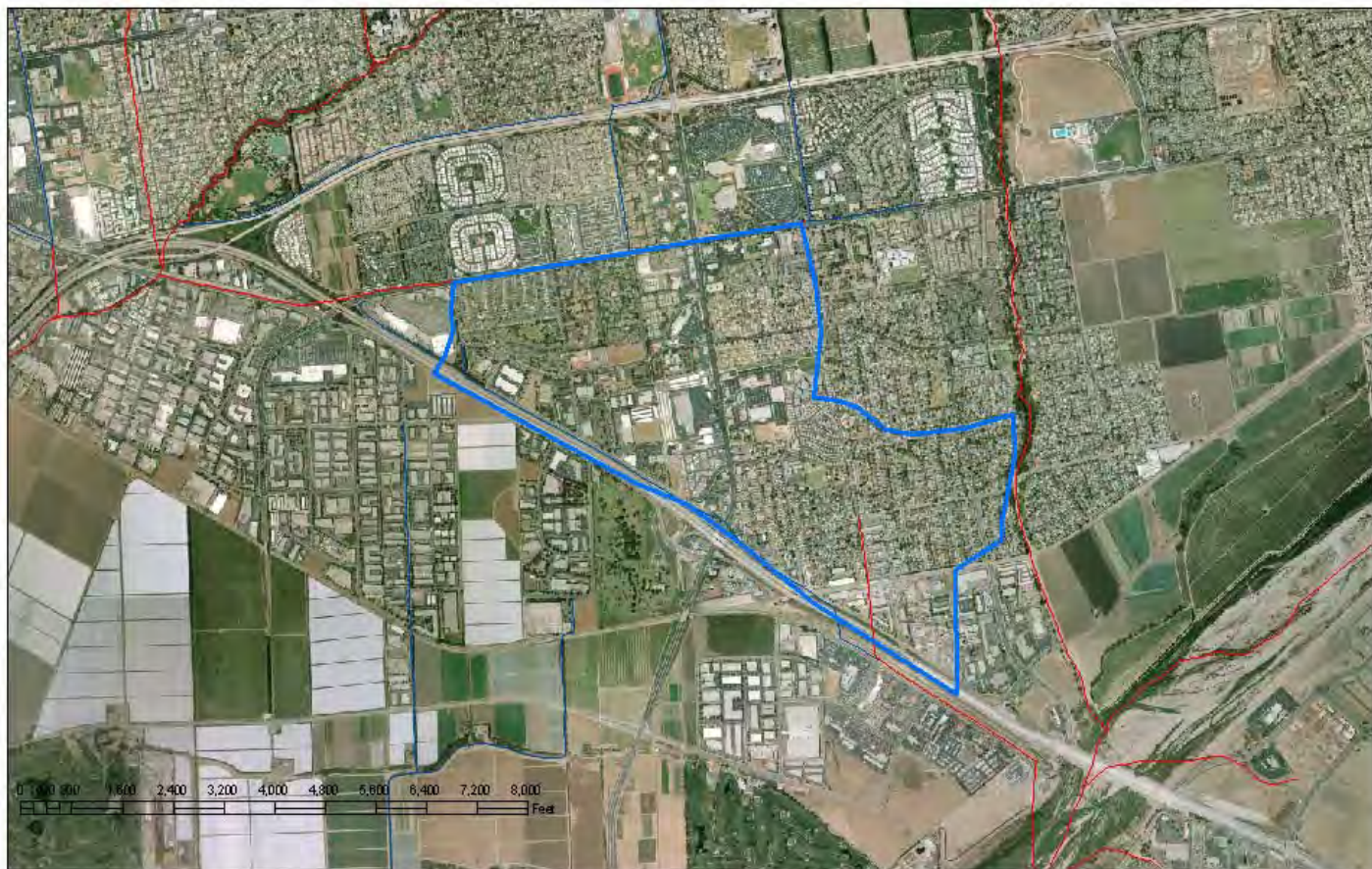


Figure 2



# Meiners Oaks Happy Valley Watershed



Figure 3



# Ojai Fox Watershed

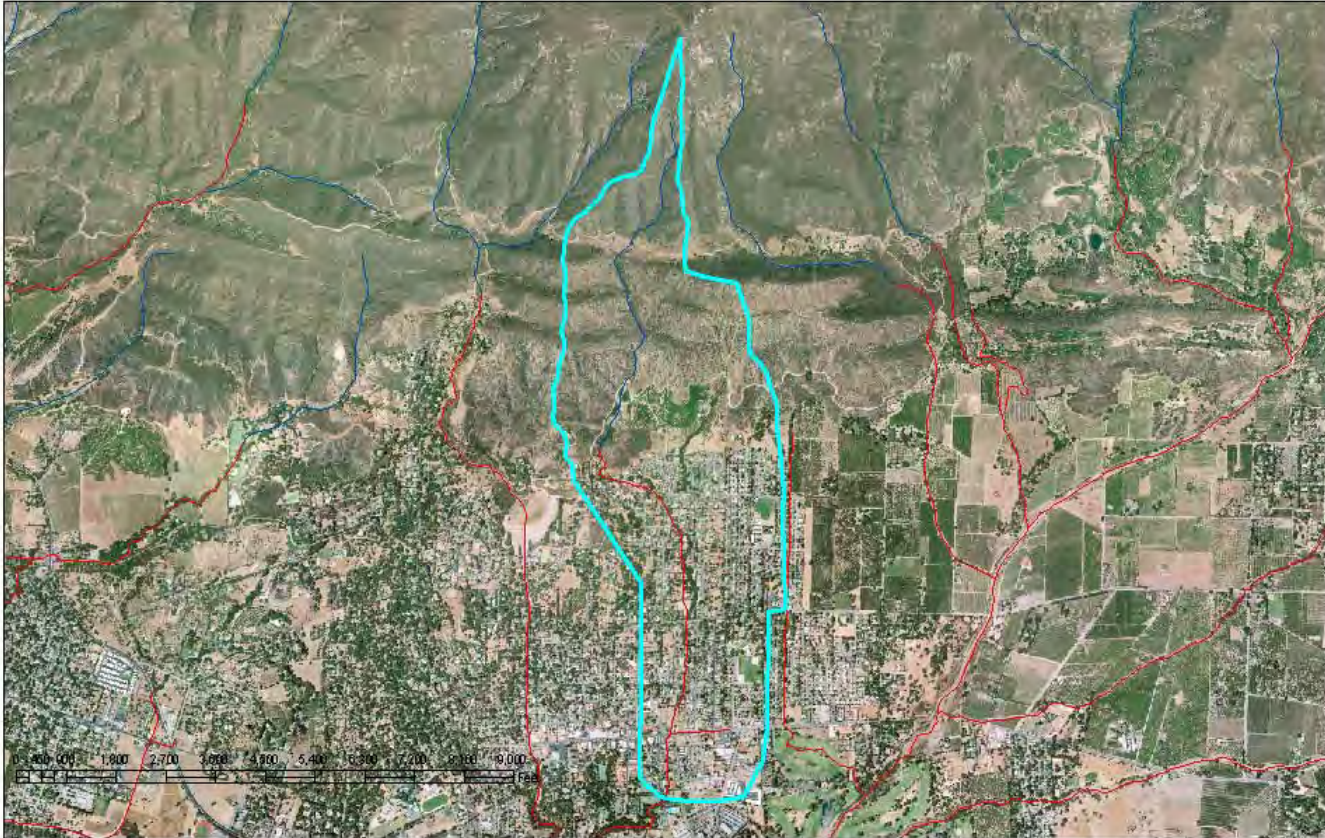


Figure 4



### Camarillo Hills Drain Watershed

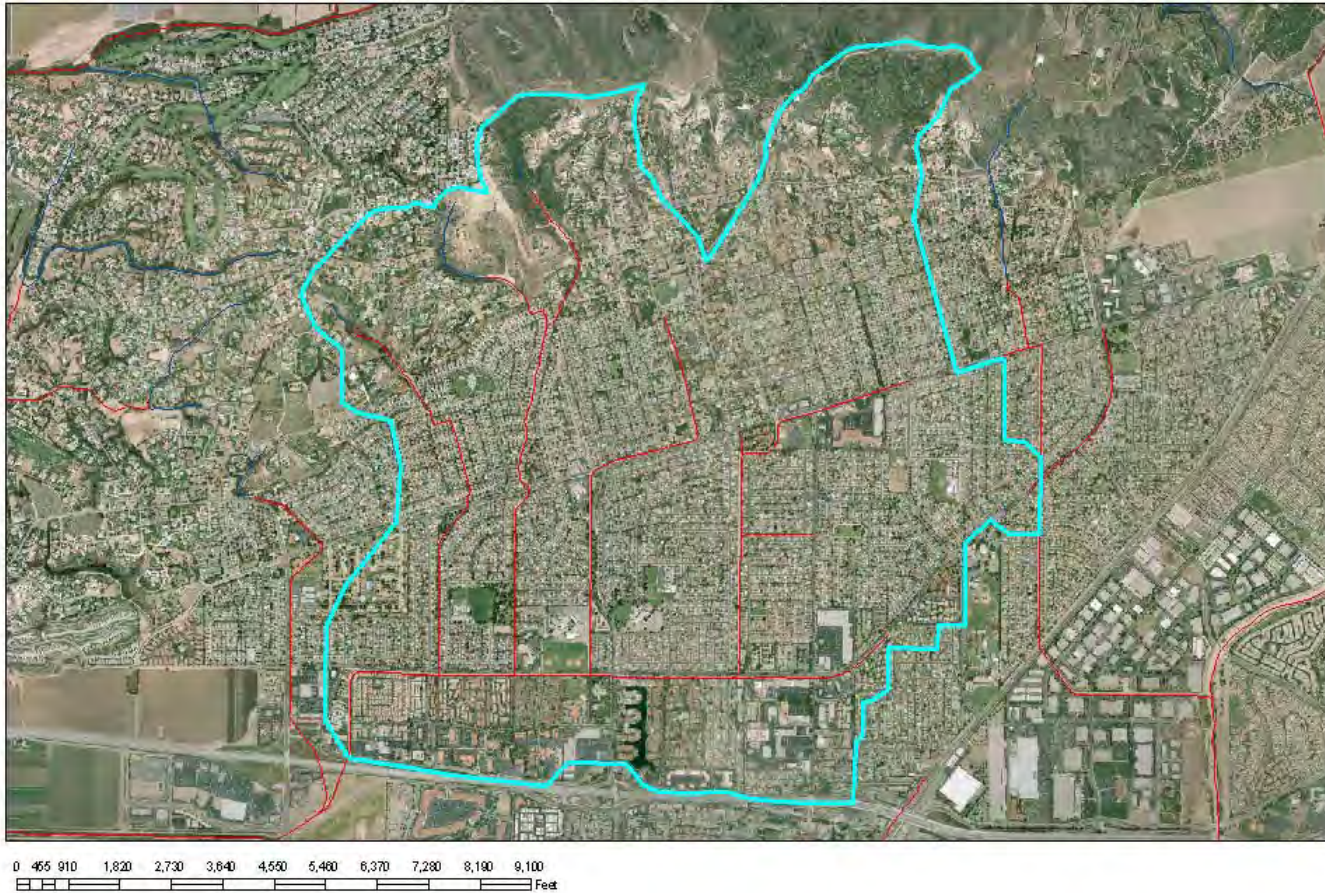
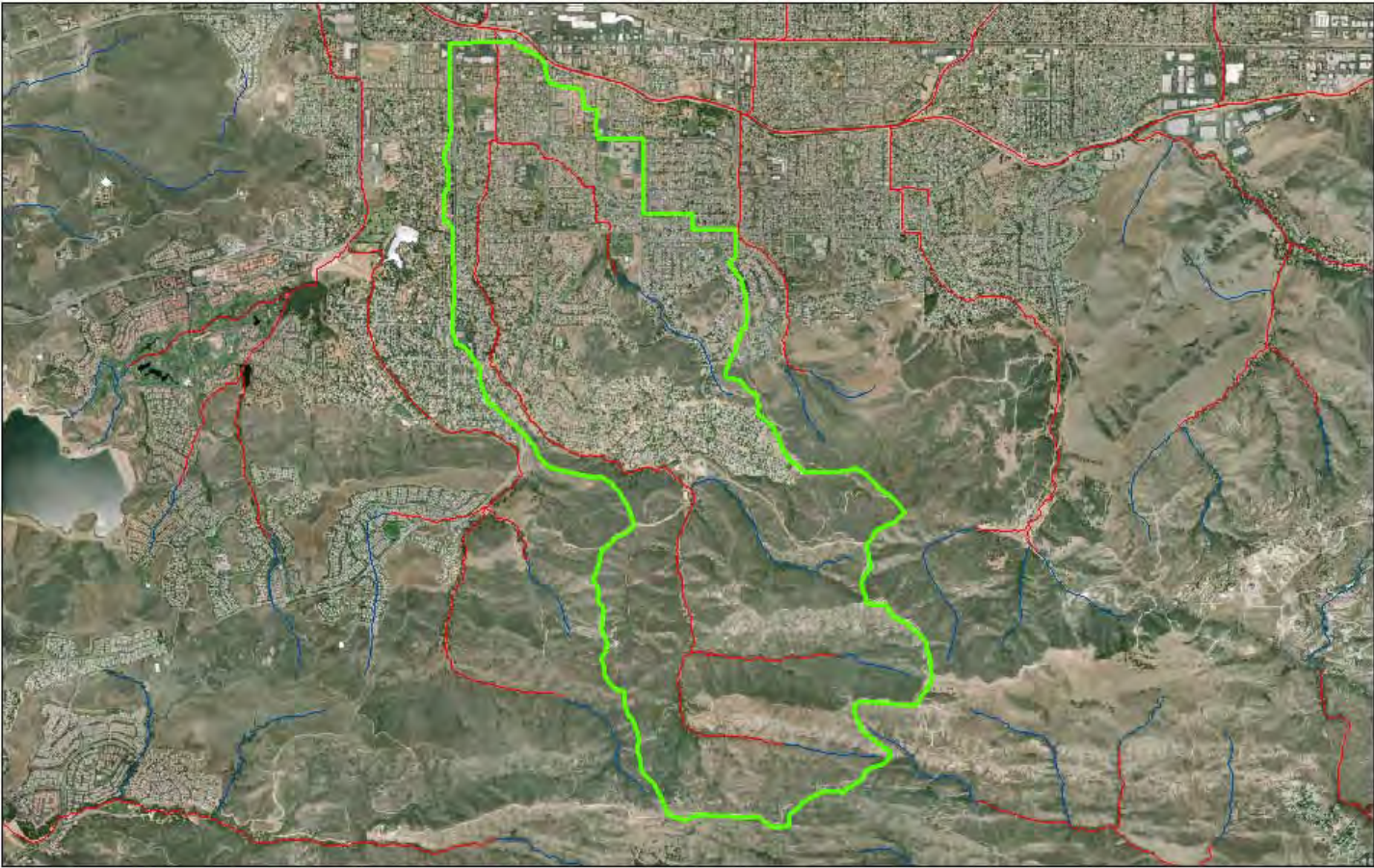


Figure 5



Simi Valley Watershed



0 1,500 3,000 4,500 6,000 7,500 9,000 10,500 12,000 13,500 15,000 Feet

Figure 6

Oxnard Watershed



Figure 7



# Moorpark Watershed

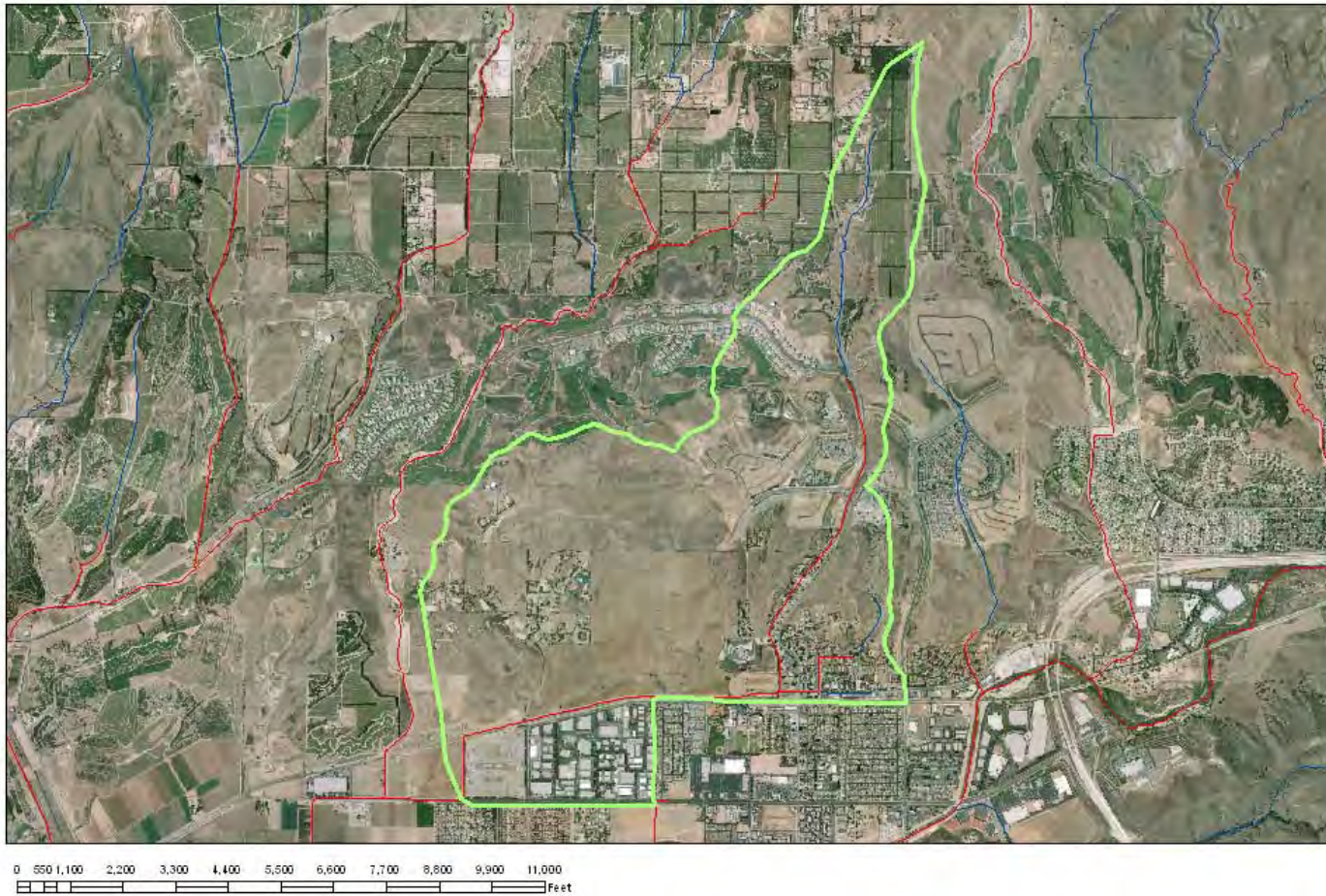


Figure 8

### Port Hueneme Watershed



Figure 9



# Fillmore Watershed



Figure 10



# Thousand Oaks Watershed

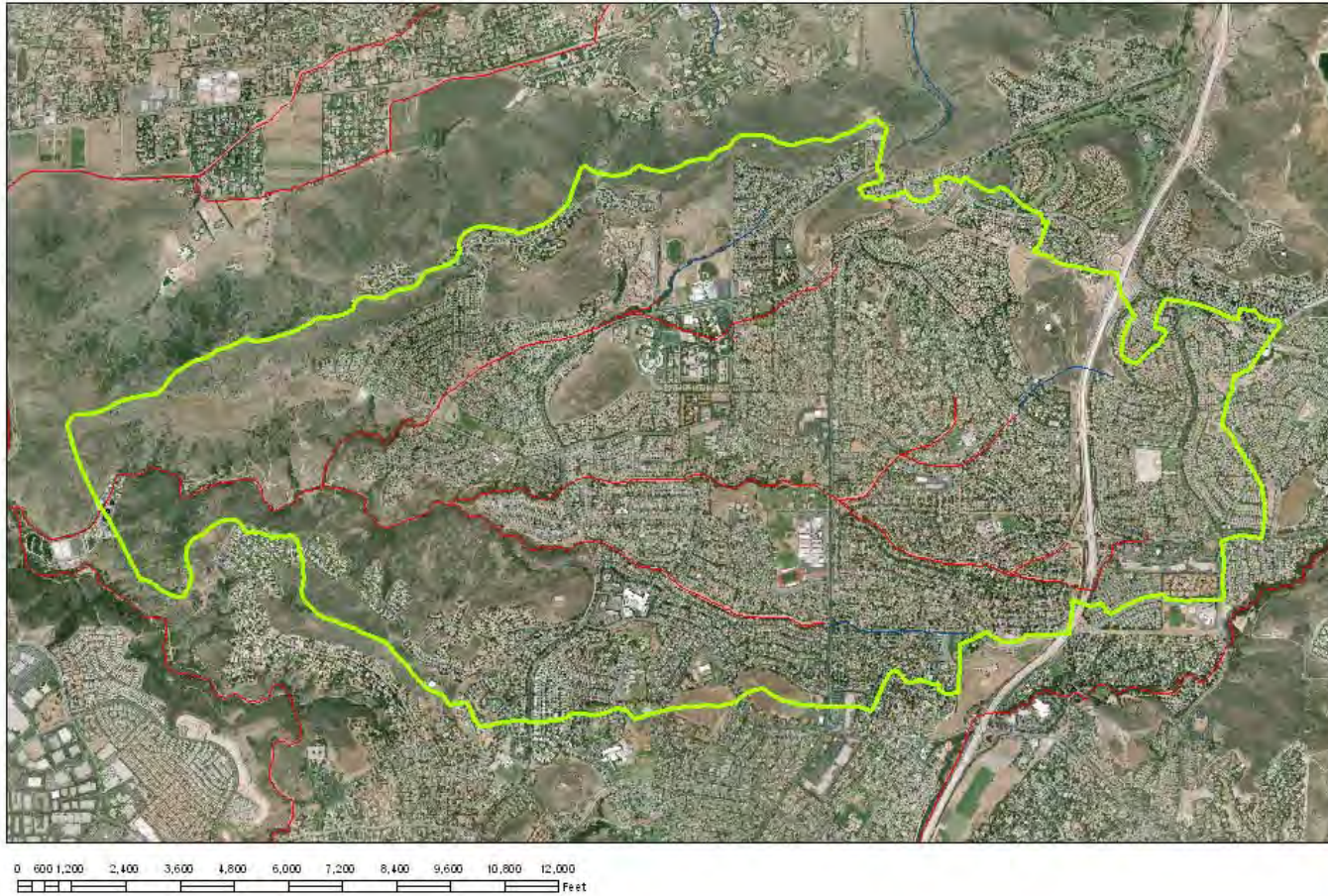


Figure 11



# Santa Paula Watershed



Figure 12

## Appendix D. Event Summaries



Site	Event	Visit	Staff	Date	Arrival Time	PST/PDT	Flowmeter		Outside Staff (ft)	Fridge T °C	Flush (L)	Pump Count	Program/6712 Display	Comp bottle status/ Estimated Vol (L)	Comp Duration			Toxicity	Notes
							Level (feet)	Flow (cfs)							(nearest half hrs)	Comp Time	Grab Time		
ME-CC	1	1	DW	11/6/2022	1358	PST	1.096	NA	1.09	Turned on	4L Distilled	6,296	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Turned fridge on. Grab bottles and tox buckets placed onsite.	
ME-CC	1	2	DL,LZ	11/8/2022	1553	PST	1.998	NA		4			Sample 5 after 1 pulse	4L		1600	1610		
ME-CC	1	3	EM,SM	11/9/2022	0903	PST	2.37	NA	2.8	2	2L Distilled	380,610	Program done	Full		0910		Turned off 6712 and fridge, propped open.	
ME-SCR	1	1	DL,KH	11/6/2022	0953	PST	13.254	NA	NA	4	4L Distilled	16,809	Time: 41 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles and tox buckets placed onsite. Lowered swing arm. Cleaned rain gauge.	
ME-SCR	1	2		11/8/2022		PST		NA	NA									Insufficient flow for sampling. Not sampled this event. Turned off 6712. Turned outside light off. Raised swing arm. Tox buckets and grab bottles left onsite for next event.	
ME-SCR	1	3	DL,DW	11/9/2022	0846	PST	13.256	NA	NA	4	2L Distilled	371,238	Sample 30 in 33:41. Stopped program	1L		NA			
ME-VR2	1	1	DL	11/6/2022	1250	PST	5.183	NA	NA	0	4L Distilled	7,313	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles and tox buckets placed onsite. Desiccant blue, rain gauge clean.	
ME-VR2	1	2	SC,DW	11/8/2022	1630	PST	5.372	NA	NA	1			Sample 10 after 1 pulse	5L		1650	1650		
ME-VR2	1	3	KH,JJ	11/9/2022	1020	PST	5.221	NA	NA	2	2L Distilled	378,792	Program done	16.5L		1030		Turned off 6712. No obvious HWM.	
MO-CAM	1	1	DW	11/6/2022	1000	PST	0.033	10	Dry	Turned on	4L Distilled	4,258	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Turned fridge on. Grab bottles and tox buckets placed onsite. Desiccant dark gray	
MO-CAM	1	2	EM,MD	11/8/2022	0945	PST	0.037	10	< toe	2			Program disabled	3.4L		1035	1035	Field duplicate 10:35	
MO-CAM	1	3	EM,SM	11/9/2022	0938	PST	0.033	10	0	0	2L Distilled	98,915	Program done	17L		0940		Turned off 6712 and fridge, propped open. Rain gauge reading less than nearby. Cleaned on 11/15	
MO-FIL	1	1	JB,SM	11/6/2022	1139	PST	0.04	NA	NA	Turned on	4L Distilled	5,063	Time: 41 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Turned fridge on. Grab bottles and tox buckets placed onsite. Desiccant purple	
MO-FIL	1	2	JM,JK	11/8/2022	0935	PST	0.089	NA	NA	-5			Sample 7 in 00:10:50	1.25"		0935	0935	Changed desiccant	
MO-FIL	1	3	DL,DW	11/9/2022	1105	PST	0.041	NA	NA	4	2L Distilled	197,344	Program done, Errors have occurred	12.5L		1110		Turned off 6712 and fridge, propped open. Trip blank for 624.1 was onsite. Taken and disposed of.	
MO-HUE	1	1	DL	11/6/2022	1358	PST	NA	NA		1	4L Distilled	4,142	Time: 41 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles and tox buckets placed onsite.	
MO-HUE	1	2	SC,DW	11/8/2022	0925	PST	NA	NA		2			Sample 10 in 00:05:48	5.5L		0935			
MO-HUE	1	3	KH,JJ	11/9/2022	1120	PST	NA	NA		1	2L Distilled	158,539	Program done	19L		1120		Turned off 6712	
MO-MEI	1	1	DL	11/6/2022	1201	PST	0.078	1	Dry	Turned on	4L Distilled	4,190	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Turned fridge on. Grab bottles and tox buckets placed onsite.	
MO-MEI	1	2	SC,DW	11/8/2022	1055	PST	0.077	1	<0.1	2			Program disabled	3.5L		1115	1115	Turned off 6712 and fridge, propped open.	
MO-MEI	1	3	KH,JJ	11/9/2022	0946	PST	0.077	1	<0.1cfs	2	2L Distilled	77,903	Program done	Overfilled ~50mL		0946		Rain gauge reading less than nearby. Cleaned on 11/15	
MO-MPK	1	1	DW	11/6/2022	1116	PST	0.074	0.2	Dry	Turned on	4L Distilled	4,761	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Turned fridge on. Grab bottles and tox buckets placed onsite. Desiccant purple	
MO-MPK	1	2	EM,MD	11/8/2022	1405	PST	0.138	1.3		11			Sample 6 after 1 pulse	3L		1420	1420		
MO-MPK	1	3	EM,MD	11/8/2022	1500	PST	0.26	5.6		NR	2L Distilled	139,939	Program done	NR		1500		Turned off 6712 and fridge, propped open.	
MO-OJA	1	1	DL	11/6/2022	1120	PST	0.094	5	Dry	3	4L Distilled	4,296	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles and field blanks and tox buckets placed onsite. Desiccant orange (good)	
MO-OJA	1	2	SC,DW	11/8/2022	1310	PST	0.096	5	1	3			Sample 4 after 1 pulse	1L		1325	1325	Field blanks at 1325	
MO-OJA	1	3	KH,JJ	11/9/2022	0913	PST	0.096	5	~0.1cfs	1	2L Distilled	51,007	Program disabled. 17 samples taken	8L		0915		Turned off 6712. (head tested flowmeter 11/16 to 1.2' - good)	

MO-OXN	1	1	JB,SM	11/6/2022	1301	PST	0.11		Turned on	4L Distilled	5,138	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.			Turned fridge on. Grab bottles and tox buckets placed onsite. Desiccant dark purple	
MO-OXN	1	2	JM,JK	11/8/2022	1050	PST	0.162	0.7	No flow	0		Program disabled	1.5"	1100	1100	Changed desiccant	
MO-OXN	1	3	DL,DW	11/9/2022	0941	PST	0.11	0.3	No flow on bank	2	2L Distilled	136,100	Program done	19L	0945	Turned off 6712 and fridge, propped open. Solar panel case peeled back. Set up team left comp bottle cap face down in fridge.	
MO-SIM	1	1	DW	11/6/2022	1157	PST	0.171	3	Turned on	4L Distilled	6,039	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.			Turned fridge on. Grab bottles and tox buckets placed onsite.	
MO-SIM	1	2	EM,MD	11/8/2022	1300	PST	0.171	3	NR	2		Program disabled, Errors have occurred	8L	1320	1320		
MO-SIM	1	3	EM,MD	11/9/2022	1035	PST	0.172	3	NR	1	2L Distilled	83,950	Program done, Errors have occurred	15.25L	1050	Turned off 6712 and fridge, propped open.	
MO-SPA	1	1	JB,SM	11/6/2022	0957	PST	NA	NA	Turned on	4L Distilled	5,051	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.			Turned fridge on. Grab bottles and tox buckets placed onsite. Vandals cut open conduit and knicked/kinked intake line. Replaced kinked section with pump tubing and secured with zip ties.	
MO-SPA	1	2	JM,JK	11/8/2022	0825	PST	NA	NA	Flowing	4		Program disabled, Errors have occurred	2L	0825	0825		
MO-SPA	1	3	DL,DW	11/9/2022	1034	PST	NA	NA	Trickle	3	2L Distilled	152,301	Program disabled, Errors have occurred	10.5L	1040	Turned off 6712 and fridge, propped open.	
MO-THO	1	1	DW	11/6/2022	1245	PST	2.042	0	2'1"	-0.5	4L Distilled	7,629	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.			Grab bottles and tox buckets placed onsite. Desiccant mixed gray/purple
MO-THO	1	2	EM,MD	11/8/2022	1145	PST	2.322	3		3			Program disabled	6.5L	1200	1200	
MO-THO	1	3	EM,SM	11/9/2022	1118	PST	2.135	1	2.5	2	2L Distilled	183,150	Program done	17.5L	1120	Turned off 6712	
MO-VEN	1	1	JB,SM	11/6/2022	1348	PST	0.045		Turned on	4L Distilled	4,208	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.			Turned fridge on. Grab bottles and tox buckets placed onsite. Desiccant pink.	
MO-VEN	1	2	JM,JK	11/8/2022	1147	PST	0.045		No flow	3			Program disabled	1"		Changed desiccant	
MO-VEN	1	3	JM,JK	11/8/2022	1402	PST	0.71	54		5			Program done	5 gallon	1350	1350	
MO-VEN	1	4	KH,JJ	11/9/2022	1200	PST	0.046	1	<0.01cfs	0	2L Distilled	101,317	Program done	19L	1200	Turned off 6712 and fridge, propped open.	

**Event Notes:**

NR: Not recorded

All times are recorded here in PST

Forecast Rain: NWS 1-3" coast/valleys and 2-5" foothills/mountains for a multi-day (36-48-hr) period and is more than the other forecasters. Sites were programmed for 0.75-1.25" rainfall

Actual Rainfall: 0.5-1.25" at sites over 3 days (most rain fell 11/8/2022)

Storm Control: Kelly Hahs

**Sample Tracking:**

Bacteria samples to William Schwartz at VCHCA:

11/8/2022 @ 15:10 PST (OJA/MEI/HUE) and 17:50 PST (VR2) by Sawyer Carmar

11/8/2022 @ 12:09 PST (SPA/FIL/OXN) and 14:30 PST (VEN) by Jim McCron

11/8/2022 @ 1605 PST (CAM+FD-1/THO/SIM/MPK) by Emily McCord

11/8/2022 @ 17:02 PST (CC) by David Laak

Toxicity samples to Victor Marquez at Aquatic Bioassay and Consulting Laboratories, Inc.

11/8/2022 @ 14:40 PST (OJA/MEI/HUE) and 17:25 PST (VR2) by Sawyer Carmar

11/8/2022 @ 12:37 PST (SPA/FIL/OXN) and 14:45 PST (VEN) by Jim McCron

11/8/2022 @ 1700 PST (CAM/THO/SIM/MPK) by Marissa DeHoyos

11/8/2022 @ 17:50 PST (CC/RW-LC1(MSS)) by David Laak

Chemistry samples to Weck Laboratories, Inc. (via Weck-provided courier (Steve Elsayed with DCS)):

11/9/2022 @ 15:20 PST (All sampled grabs and composites) by Bill Carey

**Meters:**

CAM/MPK/SIM/THO (EM/MD): Beckman 255 #2554, YSI# 01G0625

OJA/MEI/HUE/VR2 (SC/DW): YSI Ecosense pH100A # JC04180, YSI Prosense 13b10192

Site	Event	Visit	Staff	Date	Arrival Time	PST/PDT	Flowmeter		Outside Staff (ft)	Fridge T °C	Flush (L)	Pump Count	Program/6712 Display	Comp bottle status/ Estimated Vol (L)	Comp Duration			Toxicity	Notes
							Level (feet)	Flow (cfs)							(nearest half hrs)	Comp Time	Grab Time		
ME-CC	2	1	SM	11/30/2022	1327	PST	0.959	NA	NR	Turned on	4L Distilled	387,902	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite. Desiccant purple	
ME-CC	2	2	DL,KC	12/2/2022	1023	PST	1.18	NA	1.2	0			Sample 2 after 1 pulse	0.5L		1040		Turned off fridge/propped open. Turned off 6712.	
ME-CC	2	3	KH,LL	12/3/2022	0720	PST	1.596	NA	NR	3	2L Distilled	760,465	Program done	Overfilled		0725			
ME-SCR	2	1	WBC	11/30/2022	1310	PST	Out of contact	NA	NA	4	4L Distilled	377,033	Time: 10 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles and toxicity buckets still onsite from event 1. Deployed swing arm. Cleaned rain gauge	
ME-SCR	2	2	DL,KC	12/2/2022	0720	PST	2.403	NA	NA	6, turned colder			Program done. Reprogrammed 15 min and reran (enable threshold updated for higher rainfall)	1.5L		0740		Very little flow in channel	
ME-SCR	2	3	KH,LL	12/3/2022	0633	PST	2.409	NA	NA	5	2L Distilled	1,235,779	Errors have occurred. Replace pump tubing. Replace internal battery before Jun 27, 2022	1.5L		NA		Very little flow in channel. Dumped sample, not representative of stormwater. Raised swing arm. Turned 6712 off.	
ME-VR2	2	1	KC,JB	11/30/2022	1839	PST	5.196	NA	NA	3	4L Distilled		Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite. Desiccant purple. Intake secure.	
ME-VR2	2	2	DL,KC	12/2/2022	0545	PST	5.301	NA	NA	1			Sample 21 after 1 pulse. Warning replace pump tubing	10L		0600			
ME-VR2	2	3	WBC	12/2/2022	0928	PST	5.262	NA	NA	2	2L Distilled	755,466	Program done	18L		0930		Turned 6712 off	
MO-CAM	2	1	SM	11/30/2022	1245	PST	0.035	10	NR	Turned on	4L Distilled	106,871	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite. Desiccant dark grey	
MO-CAM	2	2	JB,LL	12/2/2022	0125	PST	0.04	11	NR				Program disabled	0L				Did not collect sample	
MO-CAM	2	3	JB,LL	12/2/2022	0606	PST	0.044	11	0.05	2	2L Distilled	NR	Program disabled. Stopped program	NR. Est 16.5L from photo		0620	0615	Turned off fridge/propped open. Turned off 6712.	
MO-FIL	2	1	KC,JB	11/30/2022	1607	PST	0.041	NA	0	Turned on	4L Distilled	NR	Time: 10 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite	
MO-FIL	2	2	SC,AS,MQ	12/2/2022	0350	PST	0.1	NA		4			Sample 17 in 00:00:10	7.5L		0400		Turned off fridge/propped open. Turned off 6712.	
MO-FIL	2	3	SC,AS	12/2/2022	0710	PST	0.09	NA		-1	2L Distilled	352,561	Program done	17L		0715			
MO-HUE	2	1	WBC	11/30/2022	1410	PST	NA	NA		2	4L Distilled	161,448	Time: 10 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles, field dups, and field blanks placed onsite. Replaced 2105 desiccant	
MO-HUE	2	2	EM,SM	12/2/2022	0109	PST	NA	NA		4			Sample 20 in 00:06:07	11.5L		0120		Field blanks and dups @ 01:20	
MO-HUE	2	3	EM,SM	12/2/2022	0554	PST	NA	NA		4	2L Distilled	317,080	Program done	20L		0554		Turned off 6712	
MO-MEI	2	1	KC,JB	11/30/2022	1752	PST	0.076	1	0	Turned on	4L Distilled	NR	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite. Desiccant purple/orange	
MO-MEI	2	2	EM,SM	12/2/2022	0329	PST	0.108	2	<0.25	2			Program disabled	0L		0340			
MO-MEI	2	3	EM,SM	12/3/2022	0712	PST	0.077	1	0	-2	2L Distilled	157,038	Program done	Full to top		0715		Turned off fridge/propped open. Turned off 6712.	
MO-MPK	2	1	SM	11/30/2022	1604	PST	0.072	0.2	Dry	Added ice to fridge	4L Distilled	147,708	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite. Desiccant light purple	
MO-MPK	2	2	JB,LL	12/2/2022	0358	PST	0.103	0.6	0	3 (iced)			Program disabled	9.5L		0405		Some water in stream center. No outfall from Edison	
MO-MPK	2	3	DL,KC	12/2/2022	0908	PST	0.106	NR	NR	2	2L Distilled	271,054	Program disabled. Stopped program	16L		0915		Unplugged fridge drain, propped open lid with rack. Turned off 6712.	
MO-OJA	2	1	KC,JB	11/30/2022	1722	PST	0.1	5	Dry	2	4L Distilled	NR	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite. Desiccant orange	
MO-OJA	2	2	EM,SM	12/2/2022	0431	PST	0.099	5	<0.25	3			Program disabled	0L		0440			
MO-OJA	2	3	EM,SM	12/3/2022	0649	PST	0.1	5	0	2	2L Distilled	148,182	Program done	16.5L		0650		Turned off 6712	



MO-OXN	2	1	KC,JB	11/30/2022	1406	PST	0.111	0.3	Dry	Turned on	4L Distilled	NR	Flow: 1 pulse/500mlx35, program enabling. Unable to communicate with site. Stopped program. Revisit needed.	Installed labelled bottle, lid off.		Grab bottles placed onsite
MO-OXN	2	2	WBC			PST										
MO-OXN	2	3	SC,AS,MQ	12/2/2022	0040	PST	0.349	3.4	0.4	3			Programmed 1 pulse. Sample 19 after 1 pulse	9.5L	0100	
MO-OXN	2	4	SC,AS,MQ	12/2/2022	0458	PST	0.364	3.5	0.4	3	2L Distilled	271,940	Program done	18.5L	0458	Turned off fridge/propped open. Turned off 6712.
MO-SIM	2	1	SM	11/30/2022	1515	PST	0.172	3	<0.2	Turned on	4L Distilled	90,339	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.		Grab bottles placed onsite. Desiccant purple/orange
													33 samples, errors have occurred. Reprogrammed for 23 samples (bubbles still entrained @0.287") Oversampling. Reprogrammed 12 samples. Program complete, errors have occurred	6L		Air bubbles entrained in intake, slurping sound at intake when submerged during sampling @0.312'. Tightened all hose clamps (none loose). No sign of rust above waterline. Intake pipe a couple mm above cement floor. Bubbles still entrained @ 0.318'. Turned off fridge/propped open. Turned off 6712.
MO-SIM	2	2	JB,LL	12/2/2022	0209 0325	PST	0.23 0.293	6 11	0.3	1	2L Distilled			Overflowed small amount	0330 0315	
MO-SPA	2	1	KC,JB	11/30/2022	1526	PST	NA	NA	No flow	Turned on	4L Distilled	NR	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.		Grab bottles placed onsite. Turned off fridge/propped open. Turned off 6712.
MO-SPA	2	2	SC,AS,MQ	12/2/2022	0245	PST	NA	NA	Flowing	3	2L Distilled	308,288	Program done	14L	0310 0255	
MO-THO	2	1	SM	11/30/2022	1435	PST	2.198	2	2.1	4	4L Distilled	189,770	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.		Grab bottles placed onsite. Desiccant purple
MO-THO	2	2	JB,LL	12/2/2022	0506	PST	2.398	5	2.2	3			Sample 5 after 1 pulse	2.5L	0510	
MO-THO	2	3	DL,KC	12/2/2022	0944	PST	2.532	9	NR	4	2L Distilled	350,529	Program done	17.5L	0950	Turned off 6712
MO-VEN	2	1	KC,JB	11/30/2022	1318	PST	0.047	NR	No flow	Turned on	4L Distilled	NR	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.		Grab bottles placed onsite. Desiccant purple
MO-VEN	2	2	SC,AS,MQ	12/2/2022	0150	PST	0.361	17	0.4	5			Sample 24 after 1 pulse. Errors have occurred	13L	0200	
MO-VEN	2	3	SC,AS,MQ	12/2/2022	0530	PST	0.25	9	0.2	2	2L Distilled	200,886	Program done. Errors have occurred	19L	0535	Turned off fridge/propped open

**Event Notes:**

NR: Not recorded

All times are recorded here in PST

Forecast Rain: Initial forecasts 1-2" coast/valleys and 2-4" mountains over a 12-24 hour period, but dropped/varied significantly leading up to event to 0-1". Sites programmed for 0.25"

Actual Rainfall: ~0.3~1" at NPDES monitoring stations

Storm Control: Kelly Hahs

**Sample Tracking:**

Bacteria samples to William Schwartz at VCHCA:

12/2/2022 @ 06:45 PST (OJA/MEI/HUE(+FD+FB)) by Emily McCord

12/2/2022 @ 06:30 PST (SPA/FIL/OXN/VEN) by Sawyer Carmar

12/2/2022 @ 07:03 PST (CAM/THO/SIM/MPK) by Jon Bridgeman

12/2/2022 @ 11:10 PST (CC/VR2/SCR) by David Laak

Chemistry samples to Weck Laboratories, Inc. (via Weck-provided courier)

12/2/2022 @ 15:00 PST (All sampled grabs and composites except CC/SCR/OJA/MEI composites) to Jose (DCS courier) by Bill Care)

12/3/2022 @ 09:23 PST (CC/SCR(to clean only)/OJA/MEI composites) to Hector Sanchez by Kelly Hahs

**Meters:**

CAM/MPK/SIM/THO (JB,LL): YSI Ecosense pH100A #JC04476, YSI 85 # 05E112E

OJA/MEI/HUE (EM,SM): YSI Ecosense pH100A # JCD4180, YSI Prosense 13b10192:

OXN/VEN/FIL/SPA (SC/AS,MQ): Beckman 255 # 2554, YSI 85 # 01G0625

CC/VR2 (DL,KC): Beckman 255 # 2554, YSI 85 # 01G0625

Site	Event	Visit	Staff	Date	Arrival Time	PST/PDT	Flowmeter	Flowmeter Flow (cfs)	Outside Staff (ft)	Fridge T °C	Flush (L)	Pump Count	Program/6712 Display	Comp bottle	Comp	Grab Time	Toxicity	Notes	
							Level (feet)							status/	Duration (nearest half hrs)				Estimated Vol (L)
ME-SCR	3	1	WBC	12/9/2022	1235	PST	No contact	NA	NA	4	4L Distilled	41,505	Replaced, set to zero, Time: 15 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite. Toxicity buckets still onsite from event 1. Deployed swing arm. Disabled liquid detector and calibrated to 500 ml	
ME-SCR	3	2	EM,SM,MD	12/11/2022	0741	PST	6.394	NA	NA	6	2L Distilled	339,944	Program done	17.5L		0741	0825	0825	Could not raise swing arm due to debris making arm too heavy

**Event Notes:**

NR: Not recorded

All times are recorded here in PST

Forecast Rain: Forecasts 1-2" coast/valleys and 2-5" mountains over a 12-24 hour period

Actual Rainfall: 1.18" at ME-SCR NPDES monitoring station, ~3-5" in upper SCR watershed

Storm Control: Bill Carey

**Sample Tracking:**

Chemistry and bacteria samples to Weck Laboratories, Inc. (via Weck-provided courier, 12/11/2022 @ 09:25 PST to Hector Sanchez by Kelly Hahs)

**Meters:**

SCR (EM,SM,MD): YSI Ecosense pH100A #JC04476, YSI 85 # 05E1126

Site	Event	Visit	Staff	Date	Arrival Time	PST/PDT	Flowmeter		Outside Staff (ft)	Fridge T °C	Flush (L)	Pump Count	Program/6712 Display	Comp bottle status/ Estimated Vol (L)	Comp Duration		Toxicity	Notes
							Level (feet)	Flow (cfs)							(nearest half hrs)	Comp Time		
ME-CC	4	1	DW	2/22/2023	1449	PST	1.166	NA	1.16	Turned on	4L Distilled		Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite. Changed pump tubing? Programmed suction line to 93' to get 490 ml sample
ME-CC	4	2	WBC,JB	2/24/2023	1145	PST	2.141	NA	2.15	2			Sample 2 after 1 pulse	0.5L		1145		Turned off 6712 and fridge. Propped fridge open
ME-CC	4	3	EM,SM	2/25/2023	0621	PST	5.815	NA	6	4	2L Distilled	1,190,372	Program done	Completely full		0625		
ME-SCR	4	1	SC	2/22/2023	1100	PST	7.915	NA	NA	Turned colder	4L Distilled	344,609	Time: 40 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite. Lowered swing arm.
ME-SCR	4	2	WBC,JB	2/24/2023	0930	PST	NR	NA	NA	5			Sample 14. Enabled liquid detector and programmed 22 additional samples	14L. Discarded to 7L		0935		
ME-SCR	4	3	KH,DW	2/25/2023	0534	PST	12.656	NA	NA	2	Clogged	647,317	Program done. Errors have occurred.	16.5L		0534		Could not flush with distilled water. Tried but pump was struggling. Likely a kink or buried intake line. Could not raise swing arm due to water and sediment level. Turned off 6712. All lights off.
ME-VR2	4	1	SC	2/22/2023	1440	PST	5.107	NA	NA	0	4L Distilled	Reset to 0	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite. Changed pump tube.
ME-VR2	4	2	WBC,JB	2/24/2023	1045	PST	6.164	NA	NA	4			Pulled grab to confirm pump function. Resumed sample program	2L		1045		Electrical conduit broken at house Turned 6712 off. Tried to collect one more composite aliquot but no liquid sampled. HWM ~ 9ft on staff gauge = 14' revised staff gauge
ME-VR2	4	3	SC,LL	2/25/2023	0654	PST	9.621	NA	~7 (~12' revised gauge)	0	2L Distilled	400,986	Program done. Errors have occurred.	9L		0658		
MO-CAM	4	1	DW	2/22/2023	1048	PST	0.033	10	0	Turned on	4L Distilled	NR	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite.
MO-CAM	4	2	EM,SM	2/24/2023	0556	PST	0.0044	11	0	4			Program disabled	5L		0610		Turned off 6712 and fridge. Propped fridge open
MO-CAM	4	3	EM,SM	2/25/2023	0535	PST	0.395	51	NR	3	2L Distilled	286,500				0540		
MO-FIL	4	1	DL,DP	2/22/2023	1235	PST	2.093	NA		Turned on	4L Distilled	368,820	Time: 40 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite.
MO-FIL	4	2	SC,LL	2/24/2023	0857	PST	2.944	NA		3			Sample 14 in 1:48	6.5L		0910		Turned off 6712 and fridge. Propped fridge open
MO-FIL	4	3	KH,DW	2/25/2023	0640	PST	3.766	NA		2	2L Distilled	518,326	Program done	16L		0640		
MO-HUE	4	1	SC	2/22/2023	1550	PST	NA	NA	2	4L Distilled	321,890		Time: 40 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite.
MO-HUE	4	2	DL,DW	2/24/2023	0815	PST	NA	NA	1				Sample 13 in 26:49	5.5L		0830		
MO-HUE	4	3	SC,LL	2/25/2023	0752	PST	NA	NA	1	2L Distilled	475,959		Program done	18.5L		0756		Turned off 6712
MO-MEI	4	1	SC	2/22/2023	1350	PST	0.08	1	0	4L Distilled	161,726		Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite.
MO-MEI	4	2	DL,DW	2/24/2023	0700	PST	0.494	41	0.35	4			Sample 9 after 1 pulse	5L		0715		Turned off 6712 and fridge. Propped fridge open
MO-MEI	4	3	SC,LL	2/25/2023	0625	PST		48	0.4	2	2L Distilled	233,859	Program done	Overfull		0627		
MO-MPK	4	1	DW	2/22/2023	1136	PST	0.08	0.2	0	Turned on	4L Distilled		Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite. Added ice to fridge.
MO-MPK	4	2	EM,SM	2/24/2023	0846	PST	0.265	5.6		1			Sample 7 after 1 pulse	2L		0900		
MO-MPK	4	3	EM,SM	2/25/2023	0754	PST	0.219	3.9	0.15	1	2L Distilled	422,545	Program done	16.5L		0755		Turned off 6712. Shoveled ice out of fridge. Propped fridge open, pulled drain.





Site	Event	Visit	Staff	Date	Arrival Time	PST/PDT	Flowmeter	Flowmeter Flow (cfs)	Outside Staff (ft)	Fridge T °C	Flush (L)	Pump Count	Program/6712 Display	Comp bottle	Comp	Grab Time	Toxicity	Notes
							Level (feet)							status/	Duration (nearest half hrs)			
ME-SCR	1	1	KH	3/9/2023	1015	PST	8.562	NA	NA	4	4L Distilled	688,117	Time: 40 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Switched intake from swing arm to line behind trash rack. Calibrated volume =150 ml
ME-SCR	1	2	DL,KH	3/10/2023	0807	PST	8.658	NA	NA	4			Sample 9 in 19:30	5.5L		0815		
ME-SCR	1	3	SC,LL	3/11/2023	0719	PST	8.394	NA	NA	3	2L Distilled	928,920	Program done	>19L		0725		Turned off 6712 and lights

**Event Notes:**

NR: Not recorded

All times are recorded here in PST

Forecast Rain: (NWS) 1-2", Fox mostly <0.1"

Actual Rainfall: ~1.5-2" across the county. ~1.6" at ME-SCR

Storm Control: Kelly Hahs

**Sample Tracking:**

Bacteria samples to VCHCA:

03/10/2023 @ 09:17 (SCR) by David Laak

Toxicity samples to Aquatic Bioassay and Consulting Laboratories, Inc.:

03/10/2023 @ 11:15 (RW-LC1) by David Laak

Chemistry samples to Weck Laboratories, Inc. (via Weck-provided courier (Reliable Messenger Service))

03/11/2023 @ 07:50 (SCR) by Landon Lujan

**Meters:**

SCR (KH,DL): Beckman 255 # 2554, YSI 85 #03D037E

Site	Event	Visit	Staff	Date	Arrival Time	PST/PDT	Flowmeter		Outside Staff (ft)	Fridge T °C	Flush (L)	Pump Count	Program/6712 Display	Comp bottle status/ Estimated Vol (L)	Comp Duration		Grab Time	Toxicity	Notes
							Level (feet)	Flowmeter Flow (cfs)							(nearest half hrs)	Time			
ME-CC	6	1	KH,WBC	5/15/2023	1050	PDT	1.281	NA	NR	Turned on	4L Distilled	0	Time: 40 min/500mlx35. Sample 2 in 00:36	Installed labelled bottle, lid off.				NA	Changed pump tube, reset counts to 0. Calibrated line. Desiccant purple. Turned off fridge and 6712 and propped fridge open.
ME-CC	6	2	KH,WBC	5/16/2023	1100	PDT	1.198	NA		2	2L Distilled	391,899	Program done	16	22.5	1105	1105	NA	
ME-SCR	6	1	KH,WBC	5/17/2023	0940	PDT	1.66	NA	NA	0	4L Distilled	96,949	Time: 35 min/500mlx35. Start @ 10:30 WE 17-MAY	Installed labelled bottle, lid off.				NA	UWCD flushing sediment via sluice gate M,W,F, ~0700-1000. Lowered swing arm.
ME-SCR	6	2	KH,WBC	5/18/2023	0920	PDT	8.86	NA	NA	4	2L Distilled	350,953	Program done	15	20	0930	0930	NA	Changed desiccant 2105. Raised swing arm.
ME-VR2	6	1	KH,WBC	5/22/2023	0935	PDT	4.925	NA	NA	0	4L Distilled	28,868	Time: 40 min/500mlx35. Sample 2 in 00:36	Installed labelled bottle, lid off.				NA	2105 and 4230 desiccant good. Comp bottle volume 10L so collected 2 more samples while onsite. Turned 6712 off
ME-VR2	6	2	KH,WBC	5/23/2023	0956	PDT	4.937	NA	NA	2	2L Distilled	407,677	Program done	11	24	1005	1005	NA	
MO-CAM	6	1	KH,WBC	5/15/2023	1135	PDT	0.044	11	<0.01 cfs	Turned on	4L Distilled	296,999	Time: 40 min/500mlx35. Sample 2 in 00:39	Installed labelled bottle, lid off.				NA	Installed silicone dam in channel. Connected calibration line. 4230 desiccant orange-green
MO-CAM	6	2	KH,WBC	5/16/2023	1130	PDT	0.033	10	<0.01 cfs	2	2L Distilled	399,297	Program done. Errors have occurred. No more liquid or no liquid detected samples 8-15, 17-18. Reprogrammed 5-min pacing for 3 samples to collect pooled water while onsite.	16	24	1135	1150	NA	Removed silicone dam from channel. Reconnected main intake. Turned off fridge and 6712 and propped fridge open.
MO-FIL	6	1	KH,WBC	5/17/2023	0850	PDT	1.596	NA	-	Turned on	4L Distilled	525,550	Time: 40 min/500mlx35. Sample 2 in 00:37	Installed labelled bottle, lid off.				NA	Cleared out area around intake. Chaged 4230 desiccant
MO-FIL	6	2	KH,WBC	5/18/2023	0825	PDT	1.592	NA	-	-1	2L Distilled	676,551	Program done	18.5	24	0830	0830	NA	Turned off fridge and 6712 and propped fridge open. 2105 desiccant orange
MO-HUE	6	1	KH,WBC	5/22/2023	1025	PDT	NA	NA	-	0	4L Distilled	482,302	Time: 40 min/500mlx35. Sample 2 in 00:38	Installed labelled bottle, lid off.				NA	
MO-HUE	6	2	KH,WBC	5/23/2023	1055	PDT	NA	NA	-	1	2L Distilled	637,117	Program done	19	24	1100	1100	NA	Turned 6712 off
MO-MEI	6	1	KH,WBC	5/22/2023	0900	PDT	0.077	1	<toe; <0.5 cfs	Turned on	4L Distilled	239,756	Time: 40 min/500mlx35. Sample 2 in 00:39	Installed labelled bottle, lid off.				NA	Installed calibration line. Installed silicone dam in channel. Changed 2105 desiccant Reconnected main intake. Removed silicone dam from channel. Turned off fridge (propped open) and 6712.
MO-MEI	6	2	KH,WBC	5/23/2023	0915	PDT	0.078	1	<0.1 cfs	2	2L Distilled	313,398	Program done	20	24	0920	0920	NA	
MO-MPK	6	1	KH,WBC	5/15/2023	0845	PDT	0.072	0.2	DRY	Turned to 1	4L Distilled	430,127	Time: 20 min/500mlx35. Start @ 19:00 MO 15-MAY.	Installed labelled bottle, lid off.				NA	Delayed start to aim for evening irrigation flow. 4230 desiccant half purple half pink. Installed silicone dam in channel and connected calibration line.
MO-MPK	6	2	KH,WBC	5/16/2023	0830	PDT	0.072	0.1	<0.01 cfs	1			Program done. Reprogrammed 27 samples every 2 minutes.	4L		0840		NA	Reconnected main intake. Turned off fridge and 6712.
MO-MPK	6	3	KH,WBC	5/16/2023	0950	PDT	0.074	0.2	<0.01 cfs	2	2L Distilled	746,652	Program done. Errors have occurred	17		0950		NA	
MO-OJA	6	1	KH,WBC	5/22/2023	0830	PDT	0.126	7	<toe ~1 cfs	2	4L Distilled	247,506	Time: 40 min/500mlx35. Sample 2 in 00:38	Installed labelled bottle, lid off.				NA	Connected calibration line. Installed silicone dam in channel. 4230 needs desiccant
MO-OJA	6	2	KH,WBC	5/23/2023	0830	PDT	0.13	7	<toe	2	2L Distilled	349,799	Time: 30 min/500mlx35 start at 15:30.	14		0835	0835	NA	Intake strainer washed out of dam overnight and stopped being in contact with water for all samples after 27. Programmed one more sample while onsite. Switched back to main intake and removed silicone dam.
MO-OXN	6	1	KH,WBC	5/17/2023	1030	PDT	0.11	0.3	DRY	Turned on	4L Distilled	6,463	Time: 30 min/500mlx35 start at 15:30.	Installed labelled bottle, lid off.				NA	Installed silicone dam in channel



MO-OXN	6	2	KH,WBC	5/18/2023	1010	PDT	0.110	0.3	DRY	-4	2L Distilled	6,463	Program done. Errors have occurred	DRY. Recapped and removed.	DRY	DRY	NA	Removed silicone dam from channel. Replaced 2105 desiccant. Turned 6712 off.	
MO-SIM	6	1	KH,WBC	5/15/2023	0935	PDT	0.165	3	<toe	Turned on	4L Distilled	302,889	Time: 40 min/500mlx35. Sample 2 in 00:39	Installed labelled bottle, lid off.			NA	Changed 4230 desiccant. Installed calibration line.	
MO-SIM	6	2	KH,WBC	5/16/2023	0910	PDT	0.172	3	@toe	2	2L Distilled	376,746	Program done	17.5		0915	0915	NA	Reconnected main intake. Turned off fridge and 6712.
MO-SPA	6	1	KH,WBC	5/17/2023	0820	PDT	NA	NA	DRY	Turned on	4L Distilled	576,501	Time: 2 min/500mlx35	Installed labelled bottle, lid off.			NA	No discharges in last week. Programmed to enable with sampleable flow.	
MO-SPA	6	2	KH,WBC	5/18/2023	0805	PDT	NA	NA	DRY	NR	2L Distilled	576,501	Program disabled	DRY. Recapped and removed.	DRY	DRY	NA	Turned off fridge and 6712 and propped fridge open.	
MO-THO	6	1	KH,WBC	5/15/2023	1015	PDT	2.136	1	NR	3	4L Distilled	575,970	Time: 40 min/500mlx35. Sample 2 in 00:38	Installed labelled bottle, lid off.			NA		
MO-THO	6	2	KH,WBC	5/16/2023	1020	PDT	2.147	1	NR	2	2L Distilled	738,447	Program done	18.5		1025	1025	NA	Turned 6712 off
MO-VEN	6	1	KH,WBC	5/17/2023	1105	PDT	0.043	1	~0.1cfs	Turned fridge on	4L Distilled	307,413	Time: 40 min/500mlx35. Sample 2 in 00:38	Installed labelled bottle, lid off.			NA	Replaced 2105 and 4230 desiccant. Installed silicone dam in channel.	
MO-VEN	6	2	KH,WBC	5/18/2023	1035	PDT	0.112	2	<0.1 cfs	2	2L Distilled	400,627	Program done	20		1040	1040	NA	High stage is due to backup from dam placed in channel for sampling and not high flow. Turned off fridge and 6712 and propped fridge open. Removed silicone dam from channel.

**Event Notes:**

NR: Not recorded  
All times are recorded here in PDT  
Forecast Rain: NA  
Actual Rainfall: NA  
Storm Control: NA

**Sample Tracking:**

Bacteria samples to VCHCA:  
5/16/2023 @ 12:21 PDT (CC/CAM/MPK/SIM/THO) by Kelly Hahs to William Schwartz  
5/18/2023 @ 11:22 PDT (SCR/FIL/VEN) by Kelly Hahs to William Schwartz  
5/23/2023 @ 11:30 PDT (VR2/OJA/MEI/HUE) by Kelly Hahs to William Schwartz

Chemistry samples to Weck Laboratories, Inc. (via Weck-provided courier):  
5/16/2023 @ 12:45 PDT (CC/CAM/MPK/SIM/THO) by Kelly Hahs to Magaly S  
5/18/2023 @ 13:05 PDT (SCR/FIL/VEN) by William Carey to Magaly S  
5/23/2023 @ 13:55 PDT (VR2/OJA/MEI/HUE) by William Carey to Carla Dominguez

**Meters:**

All sites (KH,WBC): Beckman 255 #2554, YSI 85 # 03D0379

**Appendix E. Chain-of Custody Forms**



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

Sampling Date: 11/8/22 Project Number: 2022/23-1 (Wet)  
 Sampling Team: Sawyer Carman, Dean Wilkinson

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)							Number of Bottles	NOTES
	MO-OJA	11/8/22 . 1325	X	X							1	
	MO-MEI	11/8/22 . 1115	X	X							1	
	MO-HUE	11/8/22 . 935	X	X							1	
	FIELD BLANK	11/08/2022 @ 1325										
	ME-VR2	11/8/22 . 1650										Separate drop-off

Relinquished Printed Name Sawyer Carman  
 Signature [Signature]  
 Affiliation Rincon Date/Time 11/8/22 . 1510

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPHL Date/Time 11/08/2022 @ 1510  
@ 1750

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli

Relinquished Name: Sawyer Carman sign: [Signature] Affiliation: Rincon Date/Time: 11/8 . 1755  
 Received Ventura Countywide Stormwater Quality Management Program 2022/23 Annual Monitoring Report Page AE - 2 Attachment A Appendix E  
 Affiliation:  Date/Time:





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

Sampling Date: 11.8.2022 Project Number: 2022/23-1 (Wet)

Sampling Team: J M & J K

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)							Number of Bottles	NOTES
	MO-OXN	11-8-22/11:00	X	X							1	
	MO-VEN	11-8-22/13:50	X	X							1	
	MO-SPA	11-8-22/8:25	X	X							1	
	MO-FIL	11-8-22/9:50	X	X							1	

Relinquished Printed Name Jim McCrory  
 Signature [Signature]  
 Affiliation CONTRACTOR Date/Time 11-8-22 / 12:09 / 12:00

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPHL Date/Time 11/08/2022 @ 12:09  
& 14:30 WS

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli



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

Sampling Date: 11/08/22 Project Number: 2022/23-1 (Wet)  
 Sampling Team: Emily McCord & Marissa De Hoyos

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)							Number of Bottles	NOTES
	MO-CAM	11/08/22/1035	X	X							1	
	MO-MPK	11/08/22/1420	X	X							1	
	MO-SIM	11/08/22/1320	X	X							1	
	MO-THO	11/08/22/1200	X	X							1	
	FD-1	11/08/22/1035	X	X							1	

Relinquished Printed Name Emily McCord  
 Signature [Signature]  
 Affiliation Pinon Date/Time 11/8/2022

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPHL Date/Time 11/08/2022 @ 1605

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli

Victor Marquez 11/8/22



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

Sampling Date: 11/8/2022 Project Number: 2022/23-1 (Wet)

Sampling Team: David Laak & Lars Zwaanenburg

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)							Number of Bottles	NOTES
<del>ME-VR2</del>			X	X							1	
ME-CC		11/8/22 16:00	X	X							1	
<del>ME-SCR</del>			X	X							1	

Relinquished Printed Name David Laak

Signature [Signature]

Affiliation VCHCA Date/Time 11/8/22 17:02

Received Printed Name WILLIAM SCHWARTZ

Signature [Signature]

Affiliation VCPHL Date/Time 11/08/2022 @ 1702

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE20-007)**  
**Toxicity - ABC Laboratories**  
**Project P6010561**

Sampling Date: 11/8/2022

Side 1 of 1

Sampling Team: Samuel Calman, Dora Williams

Project Number: 2022/23-1 (Wet)

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		X								
ME-SCR					X				2	Note 1, Note 2, Note 3
ME-VR2	11/8/22-1650	X							1	Note 1, Note 2, Note 3
MO-OJA	11/8/22-1925					X			2	Note 1, Note 2, Note 3
MO-MEI	11/8/22-1115					X			2	Note 1, Note 2, Note 3
MO-HUE	11/8/22-935						X		2	Note 1, Note 2, Note 3
								X	3	Note 1, Note 2, Note 3, Note 4

Relinquished Printed Name: Samuel Calman  
 Signature: [Signature]  
 Affiliation: Rinon  
 Date/Time: 11/8/22-1440

Received Printed Name: Victor Marquez  
 Signature: [Signature]  
 Affiliation: ABC Labs  
 Date/Time: 11/8/22-1740

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.  
 Note 4: If salinity > 2 ppt then also run topsmelt for comparison. If topsmelt unavailable, use *Hyalella*

Relinquished Name: Samuel Calman Sign: [Signature] Affiliation: Rinon Date/Time: 11/8/22-1725

Received Name: Victor Marquez Sign: [Signature] Aff: ABC Labs Attachment A Appendix E Date/Time: 11/8/22-1770



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE20-007)**  
**Toxicity - ABC Laboratories**  
**Project P6010561**

Side 1 of 1

Sampling Date: 11-8-2022

Project Number: 2022/23-1 (Wet)

Sampling Team: JM & JK

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	11-8-22/11:00					X			2	Note 1, Note 2, Note 3
MO-SPA	11-8-22/8:25					X			2	Note 1, Note 2, Note 3
MO-VEN	11-8-22/13:50						X		2	Note 1, Note 2, Note 3
MO-FIL	11-8-22/9:50						X		2	Note 1, Note 2, Note 3
MO-CAM						X			2	Note 1, Note 2, Note 3
MO-THO							X		2	Note 1, Note 2, Note 3
MO-SIM							X		2	Note 1, Note 2, Note 3
MO-MPK								X	2	Note 1, Note 2, Note 3

Relinquished Printed Name Liam McCroarty

Signature [Signature]

Affiliation COMMERCIAL

Date/Time 11-8-2022 / 12:37 / 12:45

Received Printed Name Victor Mosquera

VM 2:45

Signature [Signature]

Affiliation ABC LABS

Date/Time 11-8-22 12:37

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.

Note 4: If salinity >2 ppt then also run topsmelt for comparison. If topsmelt unavailable, use *Hyalella*



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE20-007)**  
**Toxicity - ABC Laboratories**  
**Project P6010561**

Side 1 of 1

Sampling Date: 11/08/22 Project Number: 2022/23-1 (Wet)  
 Sampling Team: Emily McCord & Marissa DeHoyos

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-SPA						X			2	Note 1, Note 2, Note 3
MO-VEN							X		2	Note 1, Note 2, Note 3
MO-FIL							X		2	Note 1, Note 2, Note 3
MO-CAM	11/08/22 1005					X			2	Note 1, Note 2, Note 3
MO-THO	11/08/22 1200						X		2	Note 1, Note 2, Note 3
MO-SIM	11/08/22 1320						X		2	Note 1, Note 2, Note 3
MO-MPK	11/08/22 1420							X	2	Note 1, Note 2, Note 3

Relinquished Printed Name Marissa DeHoyos  
 Signature [Signature]  
 Affiliation Rincon Consultants Date/Time 11/08/22 1700

Received Printed Name Victor Marquez  
 Signature [Signature]  
 Affiliation ABC LABS Date/Time 11/08/22 1700

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.  
Note 4: If salinity >2 ppt then also run topsmelt for comparison. If topsmelt unavailable, use *Hyalella*



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE20-007)**  
**Toxicity - ABC Laboratories**  
**Project P6010561**

Side 1 of 1

Sampling Date: 11/8/22

Project Number: 2022/23-1 (Wet)

Sampling Team: David Laak & Lars Zwaanenburg

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	11/8/22 16:10	X							2	Note 1, Note 2, Note 3
ME-SCR					X				1	Note 1, Note 2, Note 3
ME-VR2		X							2	Note 1, Note 2, Note 3
MO-OJA						X			2	Note 1, Note 2, Note 3
MO-MEI						X			2	Note 1, Note 2, Note 3
MO-HUE							X		3	Note 1, Note 2, Note 3, Note 4

Relinquished

Printed Name David Laak

Signature [Signature]

Affiliation VCLWPD

Date/Time 11/8/22 17:50

Received

Printed Name Victor Munguez

Signature [Signature]

Affiliation ABC LABS

Date/Time 11/8/22 17:50

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.

Note 4: If salinity >2 ppt then also run topsmelt for comparison. If topsmelt unavailable, use *Hyalella*





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract A/E20-007)**  
**Most Sensitive Species Testing - Toxicity - ABC Laboratories**  
**Project P6010506**

Side 1 of 1

Sampling Date: 11/8/2022

Project Number: 2022/23-1 (Wet)

Sampling Team:

Dave Laak & Lars Zwaanenburg

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - <i>Pimephales promelas</i> (fathead minnow)	Chronic toxicity - <i>Ceriodaphnia dubia</i> (daphnid)	Chronic toxicity - <i>Hyalella azteca</i> (Amphipod)	Chronic toxicity - <i>Chironomus dilutus</i> (midge)	Chronic toxicity - <i>Atherinops affinis</i> (topsmelt)	Chronic toxicity - <i>Macrocystis pyrifera</i> (giant kelp)	Chronic toxicity - <i>Strongylocentrotus purpuratus</i> (purple sea urchin)	Number of 5-Gallon Buckets	NOTES
<del>ME-VR2</del>	<del>11/8/22 15:00</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>3</del>	<del>Note 1, Note 2, Note 3, Note 4</del>
RW-IC1	11/8/22 15:00	X	X	X	X	X	X	X	3	Note 1, Note 2, Note 3, Note 4
<del>ME-VR2</del>	<del>11/8/22 15:00</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>3</del>	<del>Note 1, Note 2, Note 3, Note 4</del>

Relinquished Printed Name

David Laak

Signature

*[Signature]*

Affiliation

VCWPD

Date/Time 11/8/22 17:50

Received Printed Name

Walter Martinez

Signature

*[Signature]*

Affiliation

ABC LBS 1

Date/Time 11/8/22 17:50

Other Notes:

- Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%.
- Note 2: Please contact Kelly Hahs 805-658-4375 if lethal or sublethal effect > 50%. TTE may be needed.
- Note 3: Notify District within 24 hours if significant toxicity is observed.
- Note 4: Please run salt controls for any sites with salinities at/above species tolerances.



Chain of Custody Record  
 Ventura County Watershed Protection District  
 NPDES Stormwater Monitoring Program  
 Project: NPDES Stormwater Wet Season (Contract AB17-001)  
 Grabs - Week Laboratories (SIDE 2 of 2)

2110001

Sampling Date: 11/8/22  
 Sampling Team: SC, DV, JM, JK, EM, MDH  
 Project Number: 2022/23-1 (Wet) Grabs

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)					Cyanide (ASTM D7511)					GRO (LUFT GC/MS)					MTBE & 2CLEVE (EPA 624.1)					Travel Blanks (EPA 624.1)-only analyze if hits					Number of Bottles	NOTES
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
MO-SPA	11/8/22 8:25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	JM JK	
MO-FIL	11/8/22 9:35	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	JM JK	
MO-SIM	11/8/22 1320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	EM, MDH	
MO-HUE	11/8/22 9:35	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	SC, DV	
MO-THO	11/8/22 1200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	EM, MDH	
MO-MPK *	11/8/22 1420	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	EM, MDH	
FB-1	11/8/22 1325	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	SC, DV	

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

Relinquished: William Carey  
 Signature: William Carey  
 Affiliation: VCWPB  
 Date/Time: 11-9-22 / 1520

Received: Steve Elsayed  
 Signature: SE  
 Affiliation: PCS  
 Date/Time: 11-9-22 - 1520

Other Notes:  
 Travel Blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE)  
\* Container for cyanide broke  
@ Lab - KA 11/9/22  
2.8°C TOC @



WECK LABORATORIES, INC.

# Sample Receipt Checklist

Weck WKO: **2116001**

Date/Time Received: **11/09/22 @ 18:03**

WKO Logged by: **Lester Abad**

# of Samples: **32**

Samples Checked by: **Lester Abad**

Delivered by: **Client**

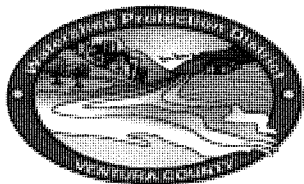
Task	Yes	No	N/A	Comments
COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		01
COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample Temperature		2.8°C		
Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Ice Type (Blue/Wet)		WET		
All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VOC Headspace: (No) none, If Yes (See comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <6mm/Pea size?
pH verified upon receipt?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	pH paper Lot# 2071882
Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 525.2<2; 6710B<2; 608.3 5-9	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Free Chlorine Tested <0.1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cl Test Strip Lot# 061221E
O&G pH <2 verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading:
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Acid Lot#
				Amt added:

PM Comments

Sample Receipt Checklist Prepared by:

Signature: Lester Abad

Date: 11/09/22



**Chain of Custody Record**  
 Ventura County Watershed Protection District  
 NPDES Stormwater Monitoring Program  
 Project: NPDES Stormwater Wet Season (Contract AE17-001)  
 Composites - Weck Laboratories (SIDE 1 of 2)

2K09037

Sampling Date: 11/9/22

Project Number: 2022/23-1 (Wet) Composites

Sampling Team: DL, DW, EM, SM, KH, JS

SAMPLE ID	DATE/TIME COLLECTED	NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Reg+507, 625-OPP	IDRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-CC	11/9/22 0910	X	X	X	X	X	X	X	X	X	X	X	1	EM, SM
<del>ME-SCR</del>	<del>11/9/22</del>		<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>1</del>	Inadequate flow
ME-VR2	11/9/22 1030		X	X	X	X	X	X	X	X	X	X	1	KH, JS
MO-CAM	11/9/22 0940		X	X	X	X	X	X	X	X	X	X	1	EM, SM
MO-OJA	11/9/22 0915		X	X	X	X	X	X	X	X	X	X	1	KH, JS
MO-MEI	11/9/22 0946		X	X	X	X	X	X	X	X	X	X	1	KH, JS
MO-VEN	11/9/22 1200		X	X	X	X	X	X	X	X	X	X	1	KH, JS

Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  
 Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.)  
 608 include alpha- & gamma-chlordane  
 \* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS  
 Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished Printed Name WILLIAM CAREY  
 Signature William Carey  
 Affiliation NCWPD Date/Time 11-9-22/1520

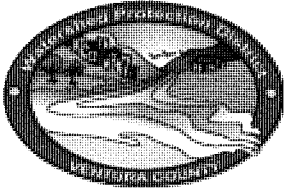
Received Printed Name STEVE ECSEMED  
 Signature [Signature]  
 Affiliation DLS Date/Time 11-9-22/1520

Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.  
 2) Please limit dilutions and do not dilute limited volume samples when enacting priority list (low reporting limits are important).

All times PST

Jamilton 11/9/22 19:03  
3.3' TO2000





# Chain of Custody Record

2K091037

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Composites - Weck Laboratories (SIDE 2 of 2)

Sampling Date: 11/8/22 + 11/9/22

Project Number: 2022/23-1 (Wet) Composites

Sampling Team: EM, MDH, DL, DW, EM, SM, KH, JJ

SAMPLE ID	DATE/TIME COLLECTED																			NOTES
MO-SPA	11/9/22 10:40				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	DL, DW
MO-FIL	11/9/22 11:10				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	DL, DW
MO-SIM	11/9/22 10:50				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	EM, SM
MO-MPK	11/8/22 1500				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	EM, MDH
MO-THO	11/9/22 1120				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	EM, SM
MO-OXN	11/9/22 0945				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	DL, DW
MO-HUE	11/9/22 1120				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	KH, JJ

Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

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

608 include alpha- & gamma-chlordane

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

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

Relinquished Printed Name ~~WCS~~ WILLIAM CAREY

Signature William Carey

Affiliation VCWPD Date/Time 11-9-22/1520

Received Printed Name STEVE ELSAIED

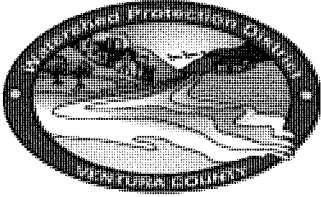
Signature SE

Affiliation WCS Date/Time 11-9-22 1520

Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.  
 2) Please limit dilutions and do not dilute limited volume samples when enacting priority list (low reporting limits are important).

All times PST

Janalma 11/9/22 18:03 JG 11/9/22  
2.8°C 102008  
33°C



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Equipment - Weck Laboratories**

Sampling Date: 11/9/22 Project Number: 2022/23-1 (Wet) Cleaning  
 Sampling Team: KH

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
18.5 L wide neck carboy and lid				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
20 L narrow neck carboy and lid (+assembly) or silicone stopper	14		*	
Blue cube cooler			14	
Grey bucket				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Black bottle bag			11	
Bottle harness			3	

Relinquished Printed Name WILLIAM CAREY  
 Signature William Carey  
 Affiliation VCWPO Date/Time 11-9-22 / 1520

Received Printed Name STEVE ELSTAYED  
 Signature SE  
 Affiliation DCS Date/Time 11-9-22-1520

Other Notes: \_\_\_\_\_



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

Sampling Date: 12/2/2022 Project Number: 2022/23-2 (Wet)  
 Sampling Team: Adam Sachs, Sanyel Carmona, Miguel Quintana

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)												Number of Bottles	NOTES
	MO-OXN	12/2/22 . 0100	X	X												1	
	MO-VEN	12/2/22 . 0200	X	X												1	
	MO-SPA	12/2/22 . 0400	X	X												1	
	MO-FIL	12/2/22 . 0255	X	X												1	

Relinquished Printed Name Sanyel Carmona  
 Signature [Signature]  
 Affiliation Rincon Date/Time 12/2/22 . 0630

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPHL Date/Time 12/02/2022 @ 0630

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli



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

Sampling Date: 12/2/2022 Project Number: 2022/23-2 (Wet)  
 Sampling Team: Emily Mubod & Shannon Morris

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)							Number of Bottles	NOTES
	MO-OJA	12/2/2022 0440	X	X							1	SM, EM
	MO-MEI	12/2/2022 0340	X	X							1	SM, EM
	MO-HUE	12/2/2022 0120	X	X							1	SM, EM
	FD-1	12/2/2022 0120	X	X							1	(HUE) SM, EM
	FB-1	12/2/2022 0120	X	X							1	SM, EM

Relinquished Printed Name Emily Mubod  
 Signature [Signature]  
 Affiliation Rincon Date/Time 12/2/2022 0645

Received Printed Name WILL SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPAL Date/Time 12/02/2022 @ 0645

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli





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

Sampling Date: 12/2/2022 Project Number: 2022/23-2 (Wet)

Sampling Team: J. Bridgeman, L. Lujan

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)								Number of Bottles	NOTES
	MO-CAM	12/2/22 0615	X	X								1	
	MO-MPK	12/2/22 0405	X	X								1	
	MO-SIM	12/2/22 0315	X	X								1	
	MO-THO	12/2/22 0510	X	X								1	

Relinquished Printed Name Jon Bridgeman  
 Signature [Signature]  
 Affiliation Ronson Date/Time 12/2 0703

Received Printed Name WILLIAM SCHWARZE  
 Signature [Signature]  
 Affiliation VCPHL Date/Time 12/02/2022 @ 0703

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli



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

Sampling Date: DL+KC 12/2/2022 Project Number: 2022/23-2 (Wet)  
 Sampling Team: ↓

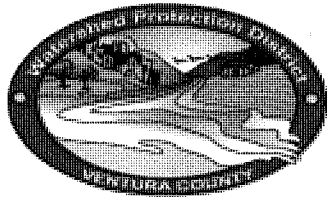
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)								Number of Bottles	NOTES
	ME-VR2	12/2/22 0600	X	X								1	
	ME-CC	12/2/22 10:40	X	X								1	
	ME-SCR	12/2/22 0740	X	X								1	

Relinquished Printed Name David Laak  
 Signature [Signature]  
 Affiliation VCWPP Date/Time 12/2/2022 11:10

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPHL Date/Time 12/02/2022 @ 11:10

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli

2429002



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Grabs - Weck Laboratories (SIDE 1 of 2)**

Sampling Date: 12/2/22

Project Number: 2022/23-2 (Wet) Grabs

Sampling Team: DL, KC, SM, EM

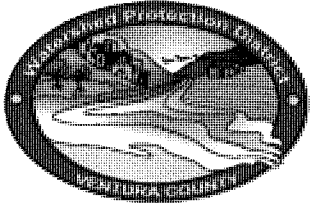
SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (LUFT GC/MS)	MTBE & 2CLEVE (EPA 624.1)	Travel Blanks (EPA 624.1)-only analyze if hits								Number of Bottles	NOTES
ME-CC	12/2/22 1040	1	1	2	3	1								8	DL, KC
<del>ME-SCR</del>	<del>12/2/22 0740</del>	<del>1</del>	<del>1</del>	<del>2</del>	<del>3</del>	<del>1</del>								<del>8</del>	<del>DL, KC</del> <small>CANCELLED 12/3/22 per LARRY HATH</small>
ME-VR2	12/2/22 0600	1	1	2	3	1								8	DL, KC
MO-HUE	12/2/2022 0120	1	1	2	3	1								8	SM, EM
MO-OJA	12/2/2022 0440	1	1	2	3	1								8	SM, EM
MO-MEI	12/2/2022 0340	1	1	2	3	1								8	SM, EM
FB-1	12/2/2022 0120	1	1	2	3	1								8	SM, EM
FD-1	12/2/2022 0120	1	1	2	3	1								8	HUE

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

Relinquished Printed Name WILLIAM B. CAREY  
 Signature William B. Carey  
 Affiliation VCWPD Date/Time 12/2/22 1500

Received Printed Name \_\_\_\_\_  
 Signature Jane DCS  
 Affiliation \_\_\_\_\_ Date/Time 12-2-22 - 1500

Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE)  
fol 1.9 - 70269 12.2.22 15:00



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Grabs - Weck Laboratories (SIDE 2 of 2)**

Sampling Date: 12/2/22 Project Number: 2022/23-2 (Wet) Grabs

Sampling Team: Samuel Carman, Adam Sachs, Miguel Quiñero

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (LUFT GC/MS)	MTBE & 2CLEVE (EPA 624.1)	Travel Blanks (EPA 624.1)-only analyze if hits									Number of Bottles	NOTES
MO-SPA	12/2/22 0255	1	1	2	3	1									8	SC, AS, MD (6 bottles)
MO-FIL	12/2/22 0400	1	1	2	3	1									8	SC, AS (6 bottles)
MO-OXN	12/2/22 0100	1	1	2	3	1									8	SC, AS (6 bottles)
MO-VEN	12/2/22 0200	1	1	2	3	1									8	SC, AS (6 bottles)
MO-CAM	12/2 0815	2	1	2	3	1									10	JB, LL (6 bottles)
MO-SIM	12/2 0315	1	1	2	3	1									8	JB, LL (6 bottles)
MO-THO	12/2 0510	1	1	2	3	1									8	JB, LL (6 bottles)
MO-MPK	12/2 0405	1	1	2	3	1									8	JB, LL (6 bottles)

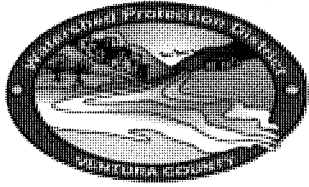
Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished Printed Name WILLIAM B. CAREY  
 Signature William B. Carey  
 Affiliation VCWPD Date/Time 12-2-22/1500

Received Printed Name José DCS  
 Signature [Signature]  
 Affiliation \_\_\_\_\_ Date/Time 12-2-22 - 13:00

Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE





2102020

**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Composites - Weck Laboratories (SIDE 1 of 2)**

Sampling Date: 12/2/22 Project Number: 2022/23-2 (Wet) Composites

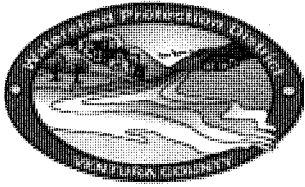
Sampling Team: WBC, SM, EM

SAMPLE ID	DATE/TIME COLLECTED																	NOTES
																		Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.)  608 include alpha- & gamma-chlordane  * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS  Lab to select samples for MS/MSD where extra volume permits (all test methods)
ME-CC				X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ME-SCR					X	X	X	X	X	X	X	X	X	X	X	X	X	
ME-VR2	12/2/22 0930				X	X	X	X	X	X	X	X	X	X	X	X	X	WL
MO-OJA					X	X	X	X	X	X	X	X	X	X	X	X	X	
MO-MEI					X	X	X	X	X	X	X	X	X	X	X	X	X	
MO-HUE	12/2/2022 0554				X	X	X	X	X	X	X	X	X	X	X	X	X	SM, EM

Relinquished Printed Name WILLIAM B. CAREY  
 Signature William B. Carey  
 Affiliation NCWPD Date/Time 12/2/22 / 1500

Received Printed Name Joa Des  
 Signature [Signature]  
 Affiliation \_\_\_\_\_ Date/Time 12-2-22 15:00

Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.  
 2) Please limit dilutions and do not dilute limited volume samples when enacting priority list (low reporting limits are important).



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Composites - Weck Laboratories (SIDE 1 of 2)**

Sampling Date: 12/3/22 Project Number: 2022/232 (Wet) Composites  
 Sampling Team: K. HAHS, L. LUJAN, S. MORRIS, E. McCord

SAMPLE ID	DATE/TIME COLLECTED	NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Regt+507, 625-OPP	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
														Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
ME-CC	12/3/22 0725	X	X	X	X	X	X	X	X	X	X	X	1	KH, LL
<del>ME-SCR</del>	<del>DRY</del>		X	X	X	X	X	X	X	X	X	X	1	<del>KH, LL</del>
<del>ME-VRZ</del>	<del></del>		X	X	X	X	X	X	X	X	X	X	1	<del></del>
<del>MO-CAM</del>	<del></del>		X	X	X	X	X	X	X	X	X	X	1	<del></del>
MO-OJA	12/3/22 0650		X	X	X	X	X	X	X	X	X	X	1	EM, SM
MO-MEI	12/3/22 0715		X	X	X	X	X	X	X	X	X	X	1	EM, SM
<del>MO-LEN</del>	<del>11/16/22 1106</del>		X	X	X	X	X	X	X	X	X	X	1	<del>JM, SK</del>

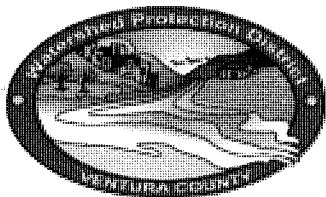
Relinquished Printed Name KELLY HAHS  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 12/3/22 0923

Received Printed Name Hector Sanchez  
 Signature [Signature]  
 Affiliation WECKLABS Date/Time 12/3/22 0923

Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.  
 2) Please limit dilutions and do not dilute limited volume samples when enacting priority list (low reporting limits are important).

Relinquished: Hector Sanchez  
12-3-22/1106  
[Signature] 12/3/22 4:20  
 Attachment A Appendix E

2102028



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Equipment - Weck Laboratories**

Sampling Date: 12-2-22 Project Number: 2022/23-2 (Wet) Cleaning

Sampling Team: WBC

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
<del>18.5 L wide neck carboy and lid</del>				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
20 L narrow neck carboy and lid (+assembly) or silicone stopper	10			
Blue cube cooler			10	
<del>Grey bucket</del>				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Black bottle bag			7	
Bottle harness			3	

Relinquished Printed Name WILLIAM B. CAREY

Signature William B. Carey

Affiliation VCWPD Date/Time 12-2-22/1500

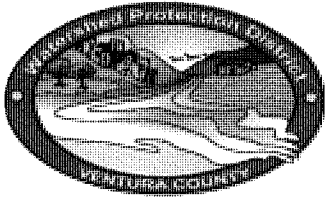
Received Printed Name Jose DCS

Signature [Signature]

Affiliation \_\_\_\_\_ Date/Time 12-2-22 15:00

Other Notes: \_\_\_\_\_

[Signature] 3.2 - Tm9 12-2-22 15:00



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Equipment - Weck Laboratories**

Sampling Date: 12/13/22

Project Number: 2022/23-12 (Wet) Cleaning part 2

Sampling Team: K. HAHS

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
18.5 L wide neck carboy and lid				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
20 L narrow neck carboy and lid (+assembly) or silicone stopper	4			
Blue cube cooler			4	
Grey bucket				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Black bottle bag			4	
Bottle harness				

Relinquished Printed Name KELLY HAHS

Signature [Signature]

Affiliation PCWB VCWARD Date/Time 12/13/22 0923

Received Printed Name Heather Sanchez

Signature [Signature]

Affiliation WACKLABS Date/Time 12/13/22 0923

Other Notes: \_\_\_\_\_

Relinquish: Heather Sanchez  
 Ventura Countywide Stormwater Quality Management Program 2022/23 Annual Monitoring Report  
 Page AE - 25  
1106





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE20-007)**  
**Toxicity - ABC Laboratories**  
**Project P6010561**

Side 1 of 1

Sampling Date: 12/11/22

Project Number: 2022/23-3 (Wet)

Sampling Team: Marissa DelHoyos, Shannon Morris, Emily McLeod

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-SCR	12/11/22 8:25 AM				X				2	Note 1, Note 2, Note 3
										Temp. deg. C = 15.5
										Chlorine (mg/L) = 1.01
										TSS (mg/L) = 1.01

Relinquished Printed Name KELLY HAYS / WILLIAM CAREY  
 Signature Kelly Hays / William Carey  
 Affiliation VCWPD Date/Time 12/11/22 / 12/12/22

Received Printed Name CHARIS SAMIA  
 Signature [Signature]  
 Affiliation ABC LAB Date/Time 12/12/22 1080

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 (Contract AE17-001)**  
**Grabs - Weck Laboratories (SIDE 1 of 1)**

Sampling Date: 12/11/22 Project Number: 2022/23-3 (Wet) Grabs  
 Sampling Team: Marissa DeHoyos, Shannon Morris, Emily McCord

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (LUFT GC/MS)	MTBE & 2CLEVE (EPA 624.1)	Travel Blanks (EPA 624.1)-only analyze if hits	Total Coliform and E. coli (Colilert)* (x10, x100, x1000 dilutions)						Number of Bottles	NOTES
ME-SCR	12/11/22 0925	1	1	2	3	1	1						9	SM, EM, MD

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

Relinquished Printed Name KELLY HANS  
 Signature [Signature]  
 Affiliation WVWD Date/Time 12/11/22

Received Printed Name Hector Sanchez  
 Signature [Signature]  
 Affiliation WECK LABS Date/Time 12-11-22 10925

Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE)  
\*Please perform Colilert analysis at a x 10, x100, and x1000 dilution





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Composites - Week Laboratories (SIDE 1 of 1)**

Sampling Date: 12/11/22

Sampling Team: Manissa DeHijos, Shannon

Project Number: 2022/23-3 (Wet) Composite

Morris, Emily McCord

SAMPLE ID	DATE/TIME COLLECTED														NOTES
		Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Reg+507, 625-OPP	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles			
ME-SCR	12/11/22 0741	X	X	X	X	X	X	X	X	X	X	X	X	1	<p>Metals by 200.8, Total &amp; Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg</p> <p>Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.)</p> <p>608 include alpha- &amp; gamma-chlordane</p> <p>* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, &amp; 8270SIM-PHENOLS</p> <p>Lab to select samples for MS/MSD where extra volume permits (all test methods)</p>

Relinquished Printed Name KELLY HANS  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 12/11/22

Received Printed Name Hector Sanchez  
 Signature [Signature]  
 Affiliation WEEKLABS Date/Time 12-11-22/0925

Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.  
 2) Please limit dilutions and do not dilute limited volume samples when enacting priority list (low reporting limits are important).



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

Sampling Date: 2/24/2023 Project Number: 2022/23-4 (Wet)  
 Sampling Team: Emily McLeod & Shannon Morris

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)								Number of Bottles	NOTES
	MO-CAM 0610	2/24	X	X							1	
	MO-MPK 0900	2/24	X	X							1	
	MO-SIM 0805	2/24	X	X							1	
	MO-THO 0715	2/24	X	X							1	

Relinquished Printed Name Emily McLeod  
 Signature [Signature]  
 Affiliation Rincon Date/Time 2/24/2023 1025

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPHL Date/Time 02/24/2023 1025

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli





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

Sampling Date: 2.24.23 Project Number: 2022/23-4 (Wet)

Sampling Team: WBL/JSB

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)								Number of Bottles	NOTES
	ME-VR2	2.24.23/1045	X	X								1	
	ME-CC	2.24.23/1145	X	X								1	
	ME-SCR	2.24.23/0935	X	X								1	

Relinquished Printed Name Jon Bridgeman  
 Signature [Signature]  
 Affiliation Rincon Date/Time 2.24.23 / 1230

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCDHL Date/Time 02/24/2023 @ 1730

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli



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

Sampling Date: 2/24/23 Project Number: 2022/23-4 (Wet)

Sampling Team: LONDON LUGAN, SANYER CARMAN

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)								Number of Bottles	NOTES
	MO-OXN	2/24/23 @ 0615	X	X								1	
	MO-VEN	2/24/23 @ 0740	X	X								1	
	MO-SPA	2/24/23 @ 0830	X	X								1	
	MO-FIL	2/24/23 @ 0910	X	X								1	

Relinquished Printed Name LONDON LUGAN  
 Signature [Signature]  
 Affiliation RINCON Date/Time 2/24/23 @ 0955

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCHCA Date/Time 02/24/2023 @ 0955

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli



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

Sampling Date: 2/24/23 Project Number: 2022/23-4 (Wet)  
 Sampling Team: David Laak & Dean Wilkinson

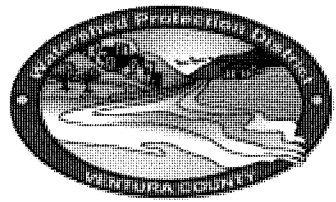
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)							Number of Bottles	NOTES
	MO-OJA	2/24/23 06:30	X	X							1	DL/DW
	MO-MEI	2/24/23 07:15	X	X							1	DL/DW
	MO-HUE	2/24/23 09:30	X	X							1	DL/DW

Relinquished Printed Name David Laak  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 2/24/23 09:13

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPHI Date/Time 02/24/2023 09:13

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli

2622015



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Grabs - Weck Laboratories (SIDE 1 of 2)**

Sampling Date: 2-24-23 Project Number: 2022/23-4 (Wet) Grabs  
 Sampling Team: WBC, JB, DL, DW

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)		Cyanide (ASTM D7511)	GRO (LUFT GC/MS)	MTBE & 2-CLEVE (EPA 624.1)	Travel Blanks (EPA 624.1) only analyze if hits	MTBE + 2-CLEVE (EPA 624.1)	Travel Blank (EPA 624.1) only analyze if hits					Number of Bottles	NOTES
ME-CC	2/24/23 1145	1	1	2										4	WBC & JB
ME-SCR	2/24/23 0935	1	1	2		3		1						6	WBC & JB
ME-VR2	2/24/23 1045	1	1	2										4	WBC & JA
MO-HUE	2/24/23 08:30	1	1	2										4	DL+DW
MO-OJA	2/24/23 06:30	1	1	2										4	DL+DW
MO-MEI	2/24/23 07:15	1	1	2										4	DL+DW

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

Relinquished Printed Name KELLY HATHS  
 Signature [Signature]  
 Affiliation VCSWD Date/Time 2/25/23 / 1050

Received Printed Name Christi Cleaves  
 Signature [Signature]  
 Affiliation Essential Date/Time 2/25/23

Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE)

[Signature] 2/25/23 2:52 PM 2023





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Grabs - Weck Laboratories (SIDE 2 of 2)**

Sampling Date: 2-24-23 Project Number: 2022/23-4 (Wet) Grabs  
 Sampling Team: Landon Lyar, Sawyer (Apmar), EMILY MLCORD, SHANNON MORRIS

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (LUFT GC/MS)									Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
														NOTES
MO-SPA	2/24/23 0830	1	1	2									4	LL + SC
MO-FIL	2/24/23 0910	1	1	2									4	LL + SC
MO-OXN	2/24/23 0615	1	1	2									4	LL + SC
MO-VEN	2/24/23 0740	1	1	2									4	LL + SC
MO-CAM	2/24/23 0610	1	1	2									4	EM & SM
MO-SIM	2/24/23 0805	1	1	2									4	EM & SM
MO-THO	2/24/23 0715	1	1	2									4	EM & SM
MO-MPK	2/24/23 0900	1	1	2									4	EM & SM

Relinquished Printed Name: KELLY HAHIS  
 Signature: [Signature]  
 Affiliation: VCCWPD Date/Time: 2/25/23 1050

Received Printed Name: Chris Charters  
 Signature: [Signature]  
 Affiliation: Essential Date/Time: 2/25/23

Other Notes: \_\_\_\_\_





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Composites - Weck Laboratories (SIDE 1 of 2)**

Sampling Date: 2/25/23  
 Sampling Team: KH, DW, EM, SM, LL, SC

Project Number: 2022/23-4 (Wet) Composites

SAMPLE ID	DATE/TIME COLLECTED	NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Reg+507, 625-OPP	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-CC	2/25/23 0625	X	X	X	X	X	X	X	X	X	X	X	1	EM, SM
ME-SCR	0534		X	X	X	X	X	X	X	X	X	X	1	KH, DW
ME-VR2	0658		X	X	X	X	X	X	X	X	X	X	1	LL, SC
MO-OJA	0600		X	X	X	X	X	X	X	X	X	X	1	LL, SC
MO-MEI	0627		X	X	X	X	X	X	X	X	X	X	1	LL, SC
MO-HUE	↓ 0756		X	X	X	X	X	X	X	X	X	X	1	LL, SC

Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

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

608 include alpha- & gamma-chlordane

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

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

Relinquished Printed Name KELLY HAHS  
 Signature [Signature]  
 Affiliation Ventura County Watershed Protection District Date/Time 2/25/23 / 1050

Received Printed Name Chris Cleofax  
 Signature [Signature]  
 Affiliation Essential Date/Time 2/25/23

Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.  
 2) Please limit dilutions and do not dilute limited volume samples when enacting priority list (low reporting limits are important).





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Composites - Week Laboratories (SIDE 2 of 2)**

Sampling Date: 2/25/23  
 Sampling Team: KH, DW, EM, SM, LL, SC

Project Number: 2022/23-4 (Wet) Composites

SAMPLE ID	DATE/TIME COLLECTED				Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Reg+507, 625-OPP	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
MO-SPA	2/25/23 0705				X	X	X	X	X	X	X	X	X	X	1	KH, DW
MO-FIL	0640				X	X	X	X	X	X	X	X	X	X	1	KH, DW
MO-OXN	0740				X	X	X	X	X	X	X	X	X	X	1	KH, DW
MO-VEN	0810				X	X	X	X	X	X	X	X	X	X	1	KH, DW
MO-CAM	0540				X	X	X	X	X	X	X	X	X	X	1	EM, SM
MO-SIM	0730				X	X	X	X	X	X	X	X	X	X	1	EM, SM
MO-MPK	0755				X	X	X	X	X	X	X	X	X	X	1	EM, SM
MO-THO	✓ 0700				X	X	X	X	X	X	X	X	X	X	1	EM, SM

Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg

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

608 include alpha- & gamma-chlordane

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

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

Relinquished Printed Name KELLY HAAS  
 Signature [Signature]  
 Affiliation Ventura Date/Time 2/25/23 / 1050

Received Printed Name Chris Cleaves  
 Signature [Signature]  
 Affiliation Essential Date/Time 2/25/23

Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.  
 2) Please **limit dilutions** and do not dilute limited volume samples when enacting priority list (low reporting limits are important).



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

Sampling Date: 3/10/2023 Project Number: 2022/23-5 (Wet)  
 Sampling Team: David Laak & Kelly Hahs

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)								Number of Bottles	NOTES
	ME-SCR	3/10/23 08:15	X	X								1	DL+KH

Relinquished Printed Name David Laak  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 3/10/2023 09:17

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 03/10/2023 09:17

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Grabs - Weck Laboratories (SIDE 1 of 1)**

Sampling Date: 3/10/2023 Project Number: 2022/23-5 (Wet) Grabs  
 Sampling Team: David Laak & Kelly Habs

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (LUFT GC/MS)	MTBE & 2CLEVE (EPA 624.1)	Travel Blanks (EPA 624.1)-only analyze if hits	Total Coliform and E. coli (Colilert)* (x10, x100, x1000 dilutions)								Number of Bottles	NOTES
ME-SCR	3/10/23 08:15	1	1	1/2											54	DLKH

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

Relinquished Printed Name Landon Lyan  
 Signature [Signature]  
 Affiliation Rivion Date/Time 3/11/23 @ 0750

Received Printed Name Hector Sanchez  
 Signature [Signature]  
 Affiliation WECKLABS Date/Time 3/11/23 0750

Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE)  
\*Please perform Colilert analysis at a x 10, x100, and x1000 dilution





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE17-001)**  
**Composites - Weck Laboratories (SIDE 1 of 1)**

Sampling Date: 3/11/23 Project Number: 2022/23-5 (Wet) Composite

Sampling Team: S. Corman + L. Lujan

SAMPLE ID	DATE/TIME COLLECTED				Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Reg+507, 625-OPP	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-SCR	3/11/23 0725				X	X	X	X	X	X	X	X	X	X	1	SC, LL

Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Ti, Zn, Hg

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

608 include alpha- & gamma-chlordane

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

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

Relinquished: Printed Name Landon Lujan  
 Signature [Signature]  
 Affiliation RINCON Date/Time 3/11/23 @ 0750

Received: Printed Name Hector Sanchez  
 Signature [Signature]  
 Affiliation WECKLABS Date/Time 3-11-23 / 0750

Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.  
 2) Please limit dilutions and do not dilute limited volume samples when enacting priority list (low reporting limits are important).



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Dry Event**  
**Bacteriological - VCHCA Lab (SIDE 1 of 1)**

Sampling Date: 5/16/23 Project Number: 2022/23-6 (Dry) CCW

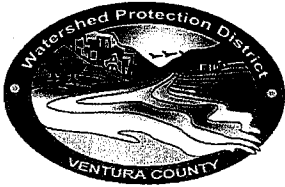
Sampling Team: W.B. CAREY, K. HAHS

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)								Number of Bottles	NOTES
	ME-CC	5/16/23 1105	X X									1	
	MO-CAM	5/16/23 1135	X X									1	
	MO-MPK	5/16/23 0840	X X									1	
	MO-SIM	5/16/23 0915	X X									1	
	MO-THO	5/16/23 1025	X X									1	

Relinquished Printed Name KELLY HAHS  
 Signature [Signature]  
 Affiliation VCHCA Date/Time 5/16/23 / 1221

Received Printed Name WILL SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPAL Date/Time 05/16/2023 @ 1221

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli All times PDT



3E16113

**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Dry Event (Contract AE17-001)**  
**Composites - Weck Laboratories (SIDE 1 of 1)**

Sampling Date: 5/16/23

Project Number: 2022/23-6 (Dry) Composites CCW

Sampling Team: W.B. CAREY K. HAHS

SAMPLE ID	DATE/TIME COLLECTED	NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Reg+507, 625-OPP	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-CC	5/16/23 1105	X	X	X	X	X	X	X	X	X	X	X	1	EPA 8270CSIM-Phenols and PAH sample ME-CC, sample 3E16113-01, had low surrogate recovery possibly due to an extraction problem. This appears to be an isolated case as the batch QC, as well as the other samples in the batch all had acceptable surrogate recovery. Sample results are reported with qualifiers. -kgt
MO-CAM	5/16/23 1145	X	X	X	X	X	X	X	X	X	X	1		
MO-SIM	5/16/23 0915	X	X	X	X	X	X	X	X	X	X	1		
MO-MPK	5/16/23 0950	X	X	X	X	X	X	X	X	X	X	1		
MO-THO	5/16/23 1025	X	X	X	X	X	X	X	X	X	X	1		

Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Ti, Zn, Hg

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

608 include alpha- & gamma-chlordane

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

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

Relinquished Printed Name KELLY HAHS

Signature [Signature]

Affiliation VCWPD

Date/Time 5/16/23/12:45

EPA 8015B for sample MP-MPK cancelled because extract was lost during extraction process and hold time expired to repeat. -kgt

Received Printed Name Magaly S.

Signature [Signature]

Affiliation Weck Labs

Date/Time 5-16-23 / 12:45

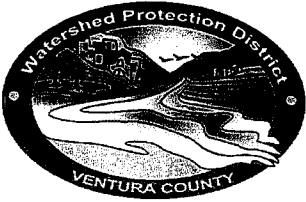
- Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.  
 2) Please limit dilutions and do not dilute limited volume samples when enacting priority list (low reporting limits are important).

All times PDT

Magaly S. 5-16-23 15:50  
 Ventura Countywide Stormwater Quality Management Program 2022/23 Annual Monitoring Report Page AE - 41  
05-16-23 16:00 Attachment A Appendix E  
230 10970



3E16113



Chain of Custody Record
Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Dry Event (Contract AE17-001)
Equipment - Weck Laboratories

Sampling Date: 5/16/23
Sampling Team: K. HAHS

Project Number: 2022/23-6 (Dry) Cleaning CCW

Table with columns: EQUIPMENT, Clean with detergent and HNO3, Clean with detergent, HNO3, and methanol\*, No action required, NOTES. Rows include items like 18.5 L wide neck carboy, 20 L narrow neck carboy, blue cube cooler, grey bucket, black bottle bag, and bottle harness.

Relinquished Printed Name KELLY HAHS

Signature [Handwritten Signature]

Affiliation VCWPD Date/Time 5/16/23/12:45

Received Printed Name Magaly S

Signature [Handwritten Signature]

Affiliation Weck Labs Date/Time 5-16-23 /12:45

Other Notes: All times PDT

Magaly S. 5-16-23 15:50

# Sample Receipt Checklist

Weck WKO: 3E16113  
 WKO Logged by: Jaime Gomez  
 Samples Checked by: Jaime Gomez

Date/Time Received: 05/16/23 @ 16:00  
 # of Samples: 05  
 Delivered by: RMS

Task	Yes	No	N/A	Comments	
COC	COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Receipt Information	Sample Temperature	2.3 °C			
	Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Ice Type (Blue/Wet)	Wet			
	All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample Preservation Verification?	Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	VOC Headspace: (No) none, If Yes (See comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> <6mm/Pea size?
	pH verified upon receipt?				pH paper Lot# 2071882
	Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2; 6710B<2; 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Free Chlorine Tested <0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cl Test Strip Lot# 061221E
	O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
	pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading: Acid Lot# Amt added:
	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

PM Comments

---



---

Sample Receipt Checklist Prepared by:

Signature: Jaime Gomez

Date: 05/17/23



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Dry Event**  
**Bacteriological - VCHCA Lab (SIDE 1 of 1)**

Sampling Date: 5/18/23 Project Number: 2022/23-6 (Dry) SCRW

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

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)							Number of Bottles	NOTES
	ME-SCR	5/18/23 0930	X	X							1	
	<del>MO-OYN</del>		<del>X</del>	<del>X</del>							<del>1</del>	DRY
	MO-VEN	5/18/23 1040	X	X							1	
	<del>MO-SPA</del>		<del>X</del>	<del>X</del>							<del>1</del>	DRY
	MO-FIL	5/18/23 0830	X	X							1	

Relinquished Printed Name KELLY HAHS  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 5/18/23/11:22

Received Printed Name Solymar Y BARRAGAN  
 Signature [Signature]  
 Affiliation P.H. LAB Date/Time 5/18/23 11:22

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Dry Event (Contract AE17-001)**  
**Grabs - Weck Laboratories (SIDE 1 of 1)**

Project Number: 2022/23-6 (Dry) Grabs SCRW

Sampling Date: 5/18/23  
 Sampling Team: W.B. CAREY, K. HAHS

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

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)			Cyanide (ASTM D751)	GRO (LUFT GC/MS)	Number of Bottles	NOTES
		1	1	2				
ME-SCR	5/18/23 0930	1	1	2		4		
MO-SPA		1	1	2		4	DRY	
MO-FIL	5/18/23 0830	1	1	2		4	DRY	
MO-OYN		1	1	2		4		
MO-VEN	5/18/23 1040	1	1	2		4		

Relinquished Printed Name WILLIAM CAREY  
 Signature William Carey  
 Affiliation VCWPD Date/Time 5-18-23/1305

Received Printed Name Magaly S  
 Signature [Signature]  
 Affiliation Weck Labs Date/Time 5-18-23 /13:05

Other Notes: \_\_\_\_\_  
 \_\_\_\_\_





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Dry Event (Contract AE17-001)**  
**Composites - Weck Laboratories (SIDE 1 of 1)**

3E18012

Sampling Date: 5/18/23

Project Number: 2022/23-6 (Dry) Composites SCRW

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

SAMPLE ID	DATE/TIME COLLECTED																	NOTES
ME-SCR	5/18/23 0930					X	X	X	X	X	X	X	X	X	X	X	X	
<del>MO-SPA</del>	<del></del>					<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>DRY</del>
MO-FIL	5/18/23 0830					X	X	X	X	X	X	X	X	X	X	X	X	
<del>MO-OXN</del>	<del></del>					<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>DRY</del>
MO-VEN	5/18/23 1040					X	X	X	X	X	X	X	X	X	X	X	X	

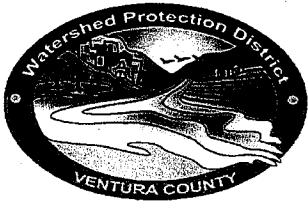
Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  
 Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.)  
 608 include alpha- & gamma-chlordane  
 \* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS  
 Lab to select samples for MS/MSD where extra volume permits (all test methods)

Relinquished Printed Name WILLIAM CAREY  
 Signature William Carey  
 Affiliation UCWPD Date/Time 5-18-23/1305

Received Printed Name Magaly S.  
 Signature [Signature]  
 Affiliation Weck Labs Date/Time 5-18-23/13:05

Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.  
 2) Please limit dilutions and do not dilute limited volume samples when enacting priority list (low reporting limits are important).

Magaly S 5-18-23 15:53  
 [Signature] 05/18/23 1553  
 Ventura Countywide Stormwater Quality Management Program 2022/23 Annual Monitoring Report Page AE - 46  
 5/30/2023: EPA 625.1 OPP cancelled on MO-FIL bc lab missed the HT for analysis. -kgt  
 Attachment A Appendix E



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Dry Event (Contract AE17-001)**  
**Equipment - Weck Laboratories**

Sampling Date: 5/18/23 Project Number: 2022/23-6 (Dry) Cleaning SCRW  
 Sampling Team: W.B. CAREY

EQUIPMENT	Clean with detergent and HNO <sub>3</sub>	Clean with detergent, HNO <sub>3</sub> , and methanol*	No action required	NOTES
18.5 L wide neck carboy and lid				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
20 L narrow neck carboy and lid (+assembly) or silicone stopper	3			
Blue cube cooler			3	
Grey bucket				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Black bottle bag			1	
Bottle harness			2	

Relinquished Printed Name WILLIAM CAREY  
 Signature William Carey  
 Affiliation VCWPD Date/Time 5-18-23/1305

Received Printed Name Magaly S.  
 Signature Magaly S.  
 Affiliation Weck Lab Date/Time 5-18-23/13:05

Other Notes: Magaly S 5-18-23/15:54  
Jambura 05/18/23 1554

# Sample Receipt Checklist

Weck WKO: **3E18012**  
 WKO Logged by: Lester Abad  
 Samples Checked by: Lester Abad

Date/Time Received: 05/15/23 @ 15:53  
 # of Samples: 03  
 Delivered by: RMS

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Receipt Information	Sample Temperature		1.2°C		
	Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Ice Type (Blue/Wet)		WET		
	All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Sample Preservation Verification?	Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	VOC Headspace: (No) none, If Yes (See comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> <6mm/Pea size?
	pH verified upon receipt?				pH paper Lot#
	Metals <2; H2SO4 pres. tests <2; 522<4; TOC <2; 508.1, 525.2<2; 6710B<2; 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Free Chlorine Tested <0.1 (Organics Analyses)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cl Test Strip Lot#
	O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
	pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading: Acid Lot# Amt added:
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

PM Comments

---

Sample Receipt Checklist Prepared by:

Signature: Lester Abad

Date: 05/18/23



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Dry Event**  
**Bacteriological - VCHCA Lab (SIDE 1 of 1)**

Sampling Date: 5/23/23 Project Number: 2022/23-6 (Dry) VRW+HUE  
 Sampling Team: W.B. CAREY, K. HAHS

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)							Number of Bottles	NOTES
	ME-VR2	5/23/23 1005	X	X							1	
	MO-OJA	↓ 0835	X	X							1	
	MO-MEI	↓ 0920	X	X							1	
	MO-HUE	↓ 1100	X	X							1	

Relinquished Printed Name KELLY HAHS  
 Signature Kelly HaHS  
 Affiliation VCHCA Date/Time 5/23/23 11:30

Received Printed Name WILLIAM SCHWARTZ  
 Signature William Schwartz  
 Affiliation VCHCA Date/Time 05/23/2023 @ 1130

Other Notes: Perform bacteriological analyses within 6 hours of sample collection time  
1:10 1:100, and 1:1000 dilutions for E. coli . All times PDT.







**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Dry Event (Contract AE17-001)**  
**Composites - Weck Laboratories (SIDE 1 of 1)**

3E23057  
3E23057

Sampling Date: 5/23/23 Project Number: 2022/23-6 (Dry) Comp VRW+HUE  
 Sampling Team: W.B. CAREY, K. HAHS

SAMPLE ID	DATE/TIME COLLECTED	NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353-2), Cl, F, (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Reg+507, 625-OPP	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-VR2	5/23/23 1005	X	X	X	X	X	X	X	X	X	X	X	1	Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
MO-OJA	0835	X	X	X	X	X	X	X	X	X	X	X	1	
MO-MEI	0920	X	X	X	X	X	X	X	X	X	X	X	1	
MO-HUE	1100	X	X	X	X	X	X	X	X	X	X	X	1	
														5/25/2023: Informed K. Hahs that NO3 and BOD missed HT. Per Kelly, cancel testing since HT was missed. -kgf

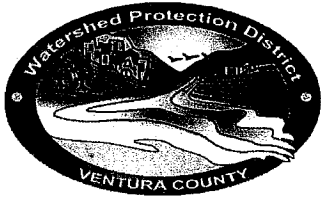
Relinquished Printed Name William Carey  
 Signature WILLIAM CAREY  
 Affiliation VCWPD Date/Time 5-23-23 / 13:55

Received Printed Name Carla Dominguez  
 Signature [Signature]  
 Affiliation Weck/RMS Date/Time 5/23/23 13:55

Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.  
 2) Please limit dilutions and do not dilute limited volume samples when enacting priority list (low reporting limits are important).

All times P.D.T. Relinquished: Carla Dominguez/c.Da  
RMS 5/23/23 16:46

Janeha 05/23/23 1646  
2.4c [Signature]



3E23057

**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Dry Event (Contract AE17-001)**  
**Equipment - Weck Laboratories**

Sampling Date: 5/23/23 Project Number: 2022/23-6 (Dry) Cleaning VRW+HUE  
 Sampling Team: W.B. CAREY, K. HAAS

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
18.5 L wide neck carboy and lid				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
20 L narrow neck carboy and lid (+assembly) or silicone stopper	4			
Blue cube cooler			4	
Grey bucket				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Black bottle bag			4	
Bottle harness			4	

Relinquished Printed Name WILLIAM CAREY  
 Signature William Carey  
 Affiliation UCWPD Date/Time 5-23-23 / 13:55

Received Printed Name Carla Dominguez  
 Signature C. Do  
 Affiliation WECK/RMS Date/Time 5/23/23 13:55

Other Notes: All times PDT. Relinquished - Carla Dominguez - C. Do  
RMS 5/23/23 16:46



# Sample Receipt Checklist

Weck WKO: 3E23057  
 WKO Logged by: Jaime Gomez  
 Samples Checked by: Jaime Gomez

Date/Time Received: 05/23/23 @ 16:46  
 # of Samples: 04  
 Delivered by: RMS

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Receipt Information	Sample Temperature	2.4 °C			
	Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Ice Type (Blue/Wet)	Wet			
	All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Sample Preservation Verification?	Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	VOC Headspace: (No) none, If Yes (See comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> <6mm/Pea size?
	pH verified upon receipt?				pH paper Lot# 2071882
	Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2; 6710B<2; 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Free Chlorine Tested <0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cl Test Strip Lot# 061221E
	O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
	pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading: Acid Lot#
	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Amt added:

PM Comments

---

Sample Receipt Checklist Prepared by:

Signature: Jaime Gomez

Date: 05/23/23





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Major Outfall Dry Weather Monitoring**  
**Bacteriological - VCHCA Lab**

Sampling Date: 08/29/23

Sample Event: DRY 2023

Sampling Team: Marissa DelHoyos, Nicole Yamaguchi

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)							Number of Bottles	NOTES
	Camarillo-5	8/29/23 12:45	X	X								MO-CAM
	Fillmore-1											MO-FIL
	Moorpark-1	08/29/23 9:20	X	X								MO-MPK
	Ojai-1											MO-OJA
	Oxnard-1											MO-oxn
	Port Huene-3											DRY-HUE3
	Santa Paula-2											DRY-SPA2
	Simi Valley-1	8/29/23 8:05	X	X								MO-SIM
	Thousand Oaks-1	8/29/23 10:30	X	X								MO-THO
	Unincorporated-4											DRY-UNI4
	Ventura-1											MO-ven

Relinquished Printed Name Marissa DelHoyos

Signature [Signature]

Affiliation Rincon Date/Time 08/29/23 1330

consultants, Inc.

Received Printed Name WILLIAM SCHWARTZ

Signature [Signature]

Affiliation VCPHL Date/Time 08/29/2023 13:30

Other Notes: 1:10, 1:100, and 1:1000 dilutions



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Major Outfall Dry Weather Monitoring**  
**Grabs - Weck Laboratories**

Invoice Contract No. AE17-001 Mod. No. 6

Sampling Date: 8/29/23 Sample Event: DRY 2023  
 Sampling Team: Marissa De Hoyos, Nicole Yamaguchi

SAMPLE ID	DATE/TIME COLLECTED	Total Hardness <i>Total Coliform IDEXX</i>	E. Col: <i>IDEXX</i>	Dissolved Metals by 200.8 <i>(Lead, Zinc, Copper)</i>	Number of Bottles	NOTES
Camarillo-1		X	X	X	3	<div style="border: 1px solid black; padding: 5px;">           Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.            Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.)         </div>
Fillmore-1		X	X	X	3	
Moorpark-1		X	X	X	3	
Ojai-1		X	X	X	3	
Oxnard-2	1430 8/29/23	X	X	X	1	
Port Hueneme-3	1520 8/29/23	X	X	X	1	
Santa Paula-3		X	X	X	3	
Simi Valley-1		X	X	X	3	
Thousand Oaks-1		X	X	X	3	
Unincorporated-4		X	X	X	3	
Ventura-1		X	X	X	1	

Relinquished Printed Name Nicole Colleen Yamaguchi  
 Signature [Signature]  
 Affiliation Simon Consultants Date/Time 8/29/23 1600

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPHL Date/Time 08/29/2023 16:00

Other Notes: \_\_\_\_\_



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Major Outfall Dry Weather Monitoring**  
**Bacteriological - VCHCA Lab**

Sampling Date: 8/30/23

Sample Event: DRY 2023

Sampling Team: Marissa De Hoyos, Nicole Yamagiwa

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)						Number of Bottles	NOTES
	<del>Camarillo-1</del>										MO-CAM
	Fillmore-1	8/30/23 0740	X	X							MO-FIL
	<del>Moorpark-1</del>										MO-MPK
	Ojai-1	8/30/23 1035	X	X							MO-OJA
	Oxnard-1										MO-OXN
	Port Hueneme-3										DRY-HUE3
	Santa Paula-2/3	8/30/23 0835	X	X							DRY-SPA2
	<del>Simi Valley-F</del>										MO-SIM
	<del>Thousand Oaks-1</del>										MO-THO
	Unincorporated-4										DRY-UNI4
	Ventura-1	8/30/23 0925	X	X							MO-VEN

Relinquished Printed Name Nicole Yamagiwa  
 Signature [Signature]  
 Affiliation Rincon Consultants Date/Time 08/30/23 1200

Received Printed Name WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPHL Date/Time 08/30/2023 1200

Other Notes: 1:10, 1:100, and 1:1000 dilutions



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Major Outfall Dry Weather Monitoring**  
**Bacteriological - VCHCA Lab**

Sampling Date: 8/30/23

Sample Event: DRY 2023

Sampling Team: Marissa De Hoyos, Nicole Yamagiwa

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)						Number of Bottles	NOTES
	Camarillo-1										MO-CAM
	Fillmore-1										MO-FIL
	Moorpark-1										MO-MPK
	Ojai-1										MO-OJA
	Oxnard-1										MO-OXN
	Port Hueneme-3										DRY-HUE3
	Santa Paula-2										DRY-SPA2
	Simi Valley-1										MO-SIM
	Thousand Oaks-1										MO-THO
	Unincorporated-12	8/30/23 1250	X	X							DRY-UNI4
	Ventura-1										MO-VEN

Relinquished Printed Name Nicole Yamagiwa  
 Signature [Signature]  
 Affiliation Rincon Consultants Date/Time 8/30/23 1350

Received Printed Name ~~WILLIAM~~ WILLIAM SCHWARTZ  
 Signature [Signature]  
 Affiliation VCPHL Date/Time 08/30/2023 13:50

Other Notes: 1:10, 1:100, and 1:1000 dilutions





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Major Outfall Dry Weather Monitoring**  
**Grabs - FGL Environmental**

Please invoice: **MA FRUITGROWERLFY24MA01 UNIT 4220PWA** Attn: Kelly Hahs

Sampling Date: 10/17/23 Sample Event: 2023-DRY  
 Sampling Team: Marissa Dettoyos & Sawyer Carman

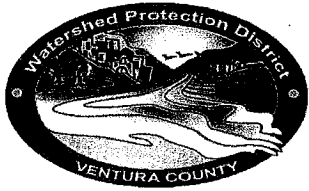
SAMPLE ID	DATE/TIME COLLECTED	Total Coliform and E. coli (Colilert) [x 10, x 100, and x 1000 dilutions]	Total Hardness as CaCO3 (EPA 200.7 or SM 2340 B)	TOC (SM 5310 C)	Dissolved Metals by 200.7 or 200.8 (Lead, Zinc, Copper)	Number of Bottles	NOTES
Camarillo-1	10/17/23 0925	X	X	X	X		

Relinquished Printed Name Marissa Dettoyos  
 Signature [Signature]  
 Affiliation Rincon Consultants Date/Time 10/17/23 1351

Received Printed Name Matt Casas  
 Signature [Signature]  
 Affiliation FGL Date/Time 10/17/23 1351

Other Notes: Samples are all urban runoff grabs. VCWPD contact: Kelly.Hahs@ventura.org (805) 658-4375  
Please set up bacteria analyses within 8 hours of sample collection time.

31/30/23



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Major Outfall Dry Weather Monitoring**  
**Grabs - Weck Laboratories**

Invoice Contract No. AE17-001 Mod. No. 6

Sampling Date: 08/29/23 Sample Event: DRY 2023  
 Sampling Team: Marissa De Hoyos, Nicole Yamagiwa

SAMPLE ID	DATE/TIME COLLECTED	Total Hardness	TOC	Dissolved Metals by 200.8 (Lead, Zinc, Copper)	Number of Bottles	NOTES
Camarillo <sup>N/S</sup> 1/5	8/29/23 1245	X	X	X	4	<div style="border: 1px solid black; padding: 5px;">           Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.            Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.)         </div>
Fillmore-1		X	X	X	4	
Moorpark-1	8/29/23 9:20	X	X	X	4	
Ojai-1		X	X	X	4	
Oxnard <sup>N/S</sup> 2	08/29/23 1430	X	X	X	4	
Port Hueneme-3	08/29/23 1520	X	X	X	4	
Santa Paula-2		X	X	X	4	
Simi Valley-1	8/29/23 0805	X	X	X	4	
Thousand Oaks-1	8/29/23 1030	X	X	X	4	
Unincorporated-4		X	X	X	4	
Ventura-1		X	X	X	4	

Relinquished Printed Name Marissa DeHoyos  
 Signature [Signature]  
 Affiliation Rincon Consultants, Inc. Date/Time 08/29/23 1620

~~Received~~ Printed Name Kelly Habs  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 8/29/23 1620 8/30/23 1245

Other Notes: REC: [Signature] ALAN G. WECK 8/30/23 1245  
RELINQ: [Signature] ALAN G. WECK 8/30/23 1720 [Signature] 08/30/23 1720

# Sample Receipt Checklist

Weck WKO: **3H30133**  
 WKO Logged by: Lester Abad  
 Samples Checked by: Lester Abad

Date/Time Received: 08/30/23 @ 17:20  
 # of Samples: 06  
 Delivered by: Client

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified about COC discrepancy?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Receipt Information	Sample Temperature		1.1°C		
	Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Ice Type (Blue/Wet)		WET		
	All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
	Project Manager notified about receipt info?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample Preservation Verification?	Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	VOC Headspace: (No) none, If Yes (see comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> <6mm/Pea Size?
	pH verified upon receipt?				pH paper Lot# 3082366
	Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2, 6710B<2, 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Free Chlorine Tested <0.1 (Organics Analyses)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cl Test Strip Lot#
	O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#3082366
	pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading: Acid Lot# Amt added:
	Project Manager notified about sample preservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

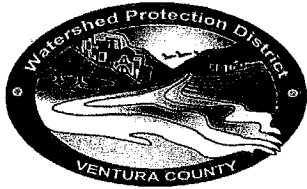
PM Comments

Sample Receipt Checklist Completed by:

Signature: Lester K. Abad

Date: 08/30/23

3H31075



Chain of Custody Record
Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Major Outfall Dry Weather Monitoring
Grabs - Weck Laboratories

Invoice Contract No. AE17-001 Mod. No. 6

Sampling Date: 08/30/23 Sample Event: DRY 2023
Sampling Team: Mahissa De Hoyos, Nicole Yamagima

Table with columns: SAMPLE ID, DATE/TIME COLLECTED, Total Hardness, TOC, Dissolved Metals by 200.8 (Lead, Zinc, Copper), Number of Bottles, NOTES. Rows include locations like Camarillo-1, Fillmore-1, Moorpark-1, Ojai-1, Oxnard-1, Port Hueneme-3, Santa Paula-3, Simi Valley-1, Thousand Oaks-1, Unincorporated-2, and Ventura-1.

Relinquished Printed Name: Nicole Yamagima
Signature: [Signature]
Affiliation: Rincon Consultants Date/Time: 8/30/23 1455

Received Printed Name: Kelly Hebs
Signature: [Signature]
Affiliation: VCWPD Date/Time: 8/30/23 1455 / Relinquished 8/31/23 0700

Other Notes: Name: [Signature] Signature: Elean Vata Date/Time: 1200 8/31/23
Affiliation: [Signature] Affiliation: [Signature] 8/31/23



# Sample Receipt Checklist

Weck WKO: **3H31075**  
 WKO Logged by: Lester Abad  
 Samples Checked by: Lester Abad

Date/Time Received: 08/30/23 @ 11:53  
 # of Samples: 05  
 Delivered by: Client

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified about COC discrepancy?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Receipt Information	Sample Temperature		1°C		
	Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Ice Type (Blue/Wet)		WET		
	All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified about receipt info?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample Preservation Verification?	Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	VOC Headspace: (No) none, If Yes (see comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> <6mm/Pea Size?
	pH verified upon receipt?				pH paper Lot# 3082364
	Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2, 6710B<2, 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Free Chlorine Tested <0.1 (Organics Analyses)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cl Test Strip Lot#
	O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
	pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading: Acid Lot# Amt added:
	Project Manager notified about sample preservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PM Comments

---



---

Sample Receipt Checklist Completed by:

Signature: Lester K. Abad

Date: 08/31/23



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE20-007)**  
**Most Sensitive Species Testing - Toxicity - ABC Laboratories**  
**Project P6010506**

Side 1 of 1

Sampling Date: 3/10/2023 Project Number: 2022/23-5 (Wet)  
 Sampling Team: David Laak & Kelly Hahs

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - <i>Pimephales promelas</i> (fathead minnow)	Chronic toxicity - <i>Ceriodaphnia dubia</i> (daphnid)	Chronic toxicity - <i>Hyalella azteca</i> (Amphipod)	Chronic toxicity - <i>Chironomus dilutus</i> (midge)	Chronic toxicity - <i>Atherinops affinis</i> (topsmelt)	Chronic toxicity - <i>Macrocystis pyrifera</i> (giant kelp)	Chronic toxicity - <i>Strongylocentrotus purpuratus</i> (purple sea urchin)	Number of 5-Gallon Buckets	NOTES
RW-LC1	3/10/23 10:00	X	X	X	X				3	Note 1, Note 2, Note 3, Note 4

Relinquished Printed Name David Laak  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 3/10/2023 11:15

Received Printed Name Jim Mann  
 Signature [Signature]  
 Affiliation AQUATIC BIOASSAY Date/Time 3.10.23 4:47

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%.  
Note 2: Please contact Kelly Hahs 805-658-4375 if lethal or sublethal effect > 50%. TIE may be needed.  
Note 3: Notify District within 24 hours if significant toxicity is observed.  
Note 4: Please run salt controls for any sites with salinities at/above species tolerances.



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
 Project: NPDES Stormwater Wet Season (Contract AE20-007)  
 Most Sensitive Species Testing - Toxicity - ABC Laboratories

Side 1 of 1

Sampling Date: 8/8/22

Project Number: 2021/22-3 (Vet) - MSS - DRY - 1

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

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - <i>Pimephales promelas</i> (fathead minnow)	Chronic toxicity - <i>Ceriodaphnia dubia</i> (daphnid)	Chronic toxicity - <i>Hyalella azteca</i> (Amphipod)	Chronic toxicity - <i>Chironomus dilutus</i> (midge)	Chronic toxicity - <i>Atherinops affinis</i> (topsmelt)	Chronic toxicity - <i>Macrocystis pyrifera</i> (giant kelp)	Chronic toxicity - <i>Strongylocentrotus purpuratus</i> (purple sea urchin)	Number of 5-Gallon Buckets	NOTES
ME-CC	8/8/22 0850	X	X	X	X				3	Note 1, Note 2, Note 3
ME-VR2	↓ 0940	X	X	X	X				3	Note 1, Note 2, Note 3
ME-SCR	↓ 0800					X	X	X	3	Note 1, Note 2, Note 3

Relinquished Printed Name KELLY HAHS

Signature [Signature]

Affiliation VCSWD Date/Time 8/8/22 10:05

Received Printed Name ELIZABETH MAFURANI

Signature [Signature]

Affiliation ABC LABS Date/Time 8-8-22 10:05

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%.

Note 2: Please contact Kelly Hahs 805-658-4375 if lethal or sublethal effect > 50%. TIE may be needed.

Note 3: Notify District within 24 hours if significant toxicity is observed.

All times PDT



**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
 Project: NPDES Stormwater Dry Season (Contract AE20-007)  
 Most Sensitive Species Testing - Toxicity - ABC Laboratories

Side 1 of 1

Sampling Date: 8/10/22 Project Number: MSS-DRY-1A  
 Sampling Team: W.B. CAREY, K. HAHS

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - <i>Pimephales promelas</i> (fathead minnow)	Chronic toxicity - <i>Ceriodaphnia dubia</i> (daphnid)	Chronic toxicity - <i>Hyaella azteca</i> (Amphipod)	Chronic toxicity - <i>Chironomus dilutus</i> (midge)	Chronic toxicity - <i>Atherinops affinis</i> (topsmelt)	Chronic toxicity - <i>Macrocystis pyrifera</i> (giant kelp)	Chronic toxicity - <i>Strongylocentrotus purpuratus</i> (purple sea urchin)	Number of 5-Gallon Buckets	NOTES
<del>MO-TUE</del>						X	X	X	3	<del>Note 1, Note 2, Note 3</del>
RW-LC1	8/10/22 0935	X	X	X	X				3	Note 1, Note 2, Note 3
<del>MO-TUE</del>						X	X	X	3	<del>Note 1, Note 2, Note 3</del>

Relinquished Printed Name KELLY HAHS  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 8/10/22 / 11:13

Received Printed Name ELIZABETH MATHIAS  
 Signature [Signature]  
 Affiliation ABC LABS Date/Time 8-10-22 / 11:13

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%.  
Note 2: Please contact Kelly Hahs 805-658-4375 if lethal or sublethal effect > 50%. TIE may be needed.  
Note 3: Notify District within 24 hours if significant toxicity is observed.  
All times P.D.T.





**Chain of Custody Record**  
**Ventura County Watershed Protection District**  
**NPDES Stormwater Monitoring Program**  
**Project: NPDES Stormwater Wet Season (Contract AE20-007)**  
**Most Sensitive Species Testing - Toxicity - ABC Laboratories**

Side 1 of 1

Sampling Date: 8/29/22 Project Number: MSS-Dry-2  
 Sampling Team: ~~8/29/22~~ K. HAHS, W.B. CAREY

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - <i>Pimephales promelas</i> (fathead minnow)	Chronic toxicity - <i>Ceriodaphnia dubia</i> (daphnid)	Chronic toxicity - <i>Hyalella azteca</i> (Amphipod)	Chronic toxicity - <i>Chironomus dilutus</i> (midge)	Chronic toxicity - <i>Atherinops affinis</i> (topsmelt)	Chronic toxicity - <i>Macrocystis pyrifera</i> (giant kelp)	Chronic toxicity - <i>Strongylocentrotus purpuratus</i> (purple sea urchin)	Number of 5-Gallon Buckets	NOTES
ME-CC	8/29/22 0730	X	X	X	X				3	Note 1, Note 2, Note 3
ME-VR2	8/29/22 10:05 <del>0730</del>	X	X	X	X				3	Note 1, Note 2, Note 3
ME-SCR	8/29/22 0645					X	X	X	3	Note 1, Note 2, Note 3
MO-HUE	8/29/22 0920					X	X	X	3	"
RW-LC1	8/29/22 0820	X	X	X	X				3	"

Relinquished Printed Name KELLY HAHS  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 8/29/22 10:20

Received Printed Name Victor Marquez  
 Signature [Signature]  
 Affiliation ABC LABS Date/Time 8/29/22 1020

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%.  
 Note 2: Please contact Kelly Hahs 805-658-4375 if lethal or sublethal effect > 50%. TIE may be needed.  
 Note 3: Notify District within 24 hours if significant toxicity is observed. All times PDT.  
Please run salt controls for FW species if needed.