



*Ventura Countywide  
Stormwater Quality  
Management Program*

2020-2021  
Permit Year

Ventura Countywide Stormwater Quality  
Management Program Annual Report

Attachments D Monitoring Appendices A - E



December 15, 2021

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

## **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.

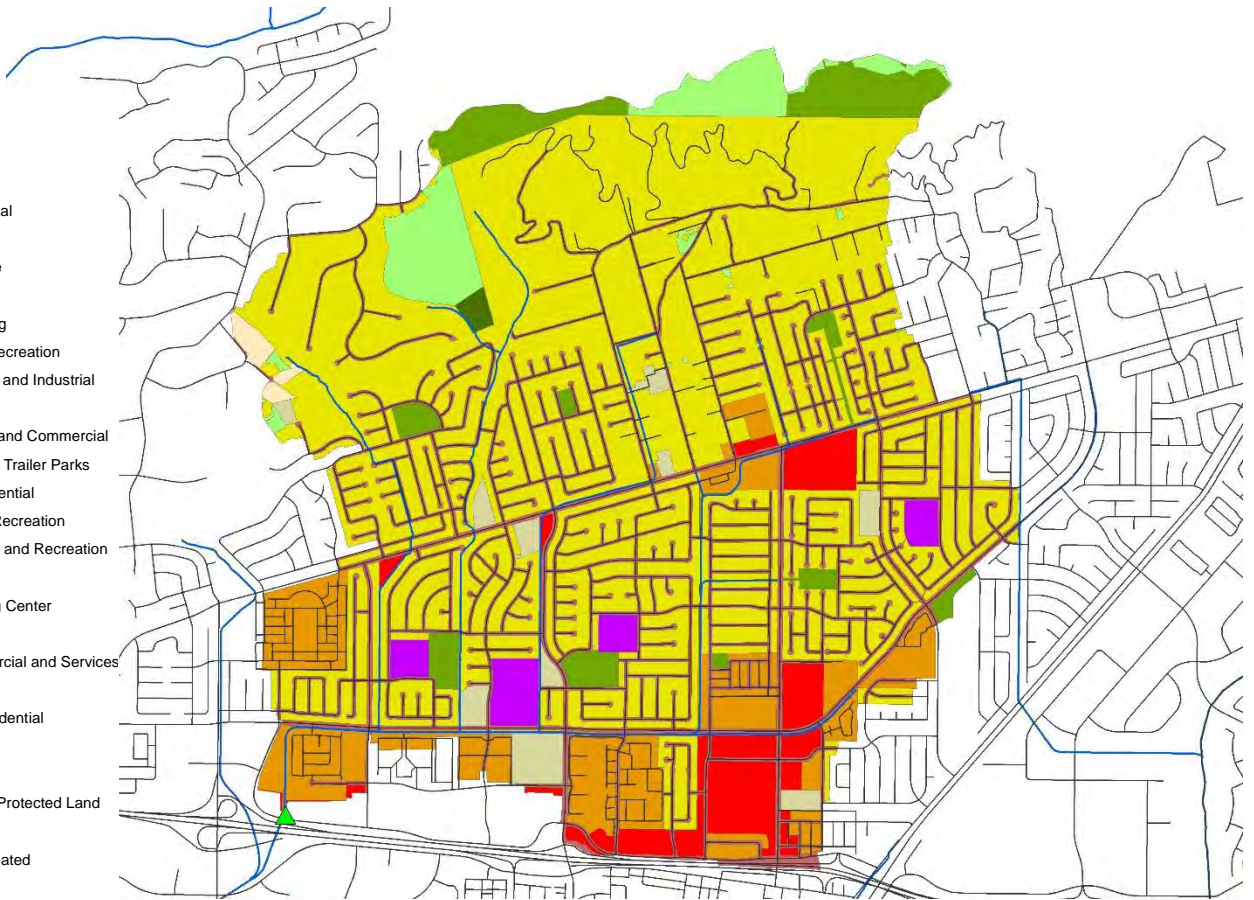


**Legend**

**SCAG 2012 LU**

**Label**

- Agriculture
- Cemeteries
- Education K-12
- General Commercial
- General Industrial
- General Office Use
- Light Industrial
- Light Manufacturing
- Local Parks and Recreation
- Mixed Commercial and Industrial
- Mixed Residential
- Mixed Residential and Commercial
- Mobile Homes and Trailer Parks
- Multi-Family Residential
- Open Space and Recreation
- Other Open Space and Recreation
- Public Facilities
- Regional Shopping Center
- Residential
- Retail and Commercial and Services
- Rural Residential
- Single Family Residential
- Specific Plan
- Transportation
- Undevelopable or Protected Land
- Utility Facilities
- Vacant Undifferentiated
- Water



**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

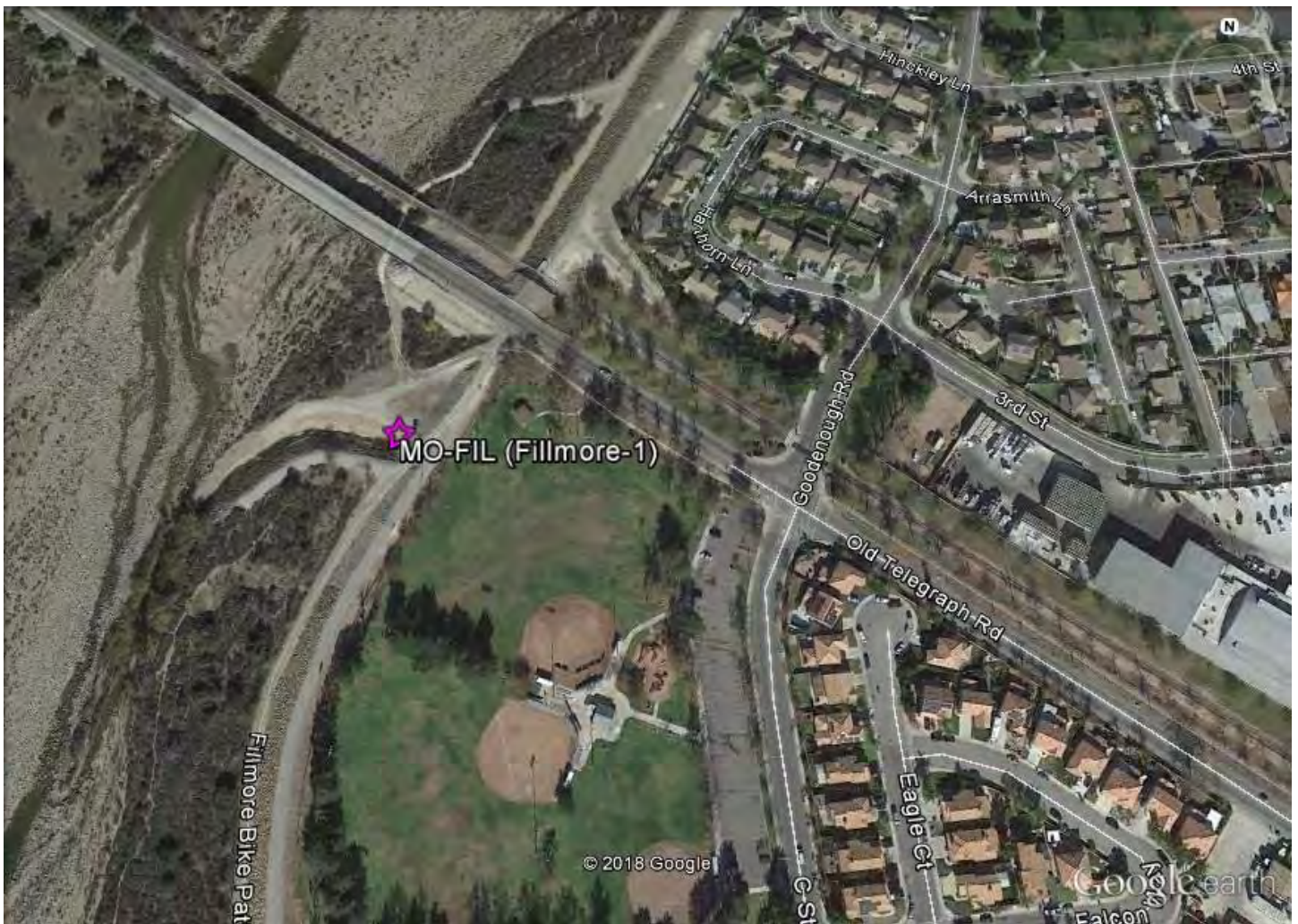
**Station:** MO-FIL (Fillmore-1)

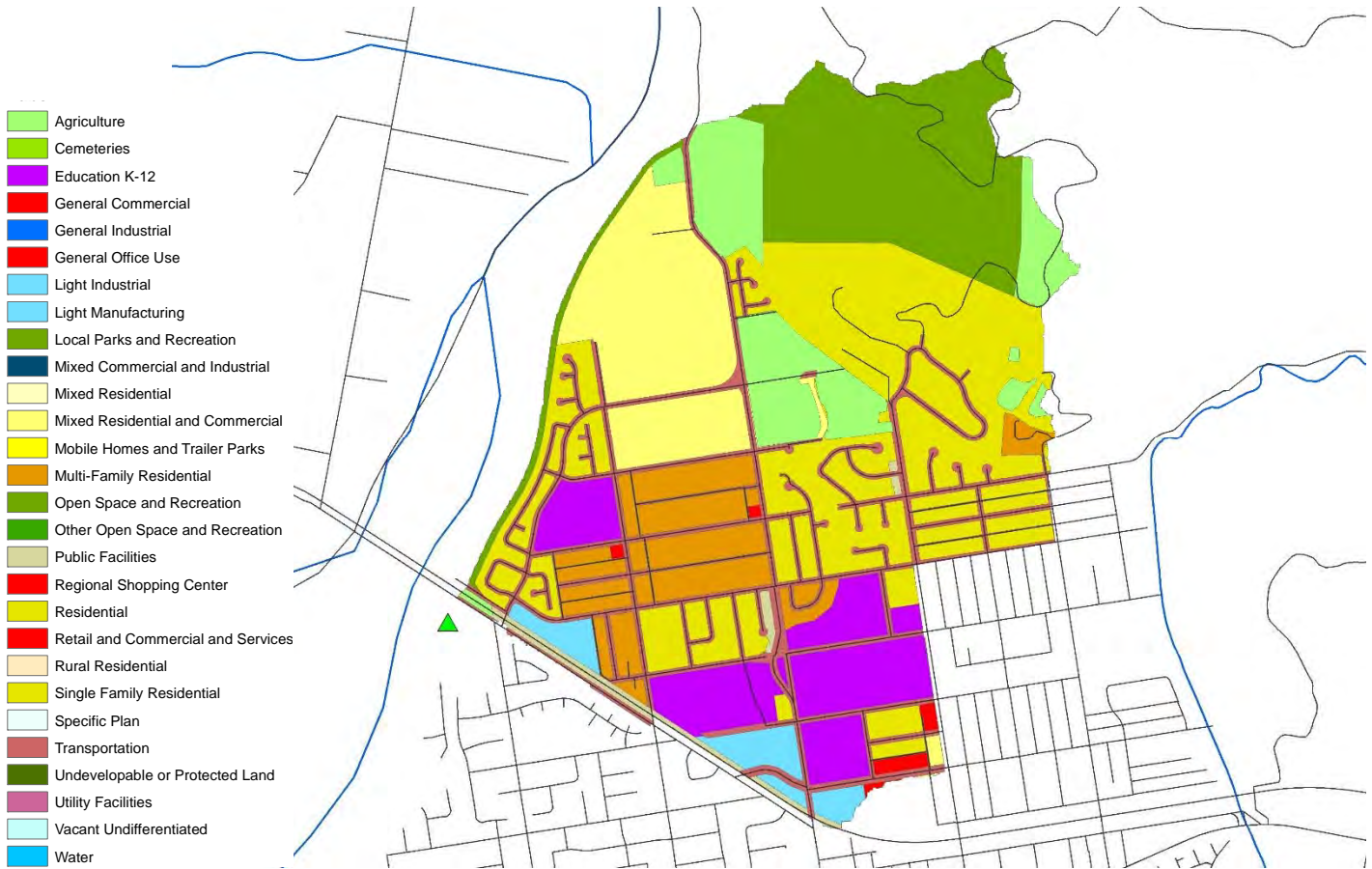
**Waterbody:** North Fillmore Drain (tributary to Sespe Creek)

**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)

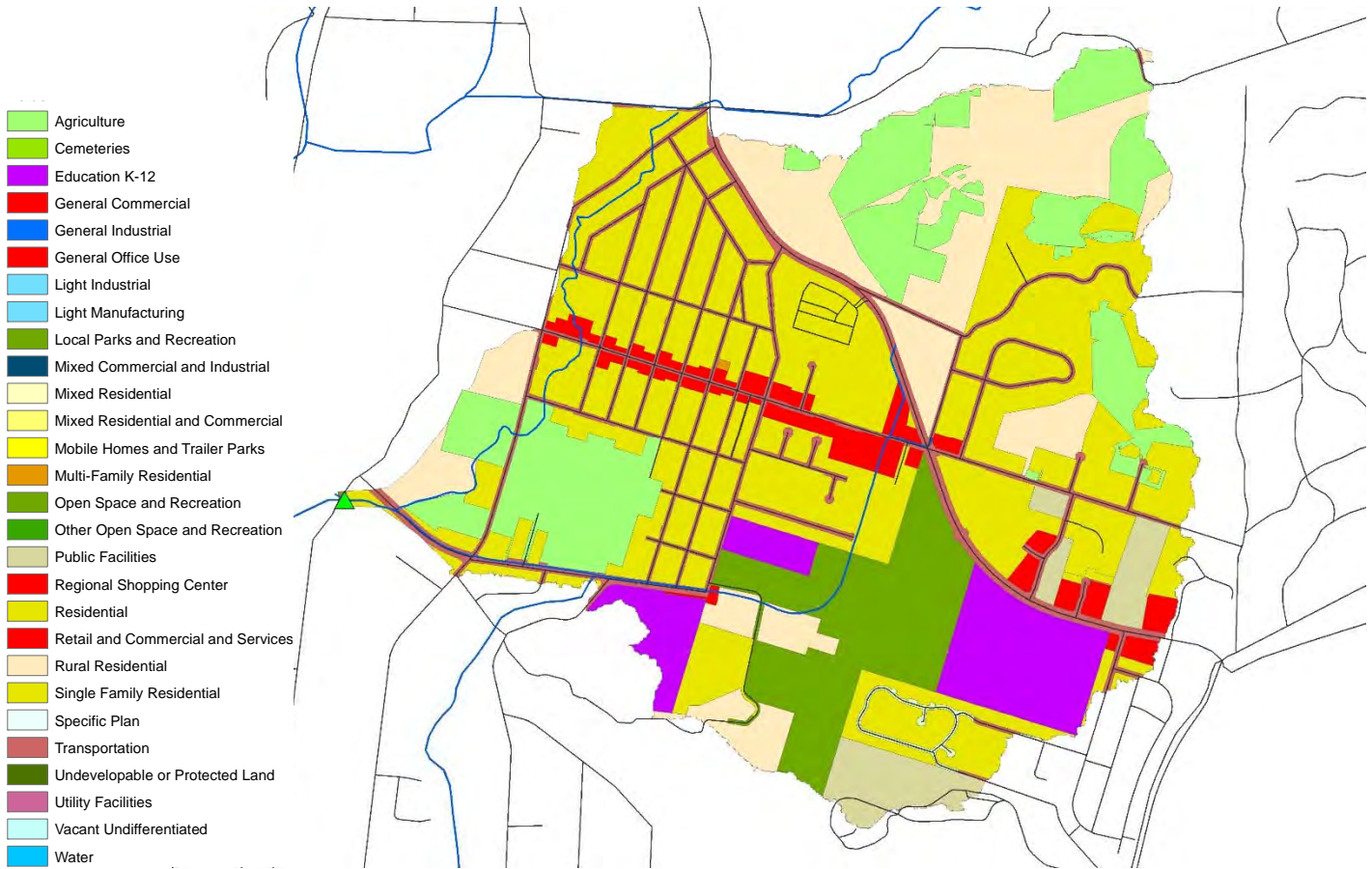
**Waterbody:** Happy Valley Drain (tributary to Ventura River)

**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

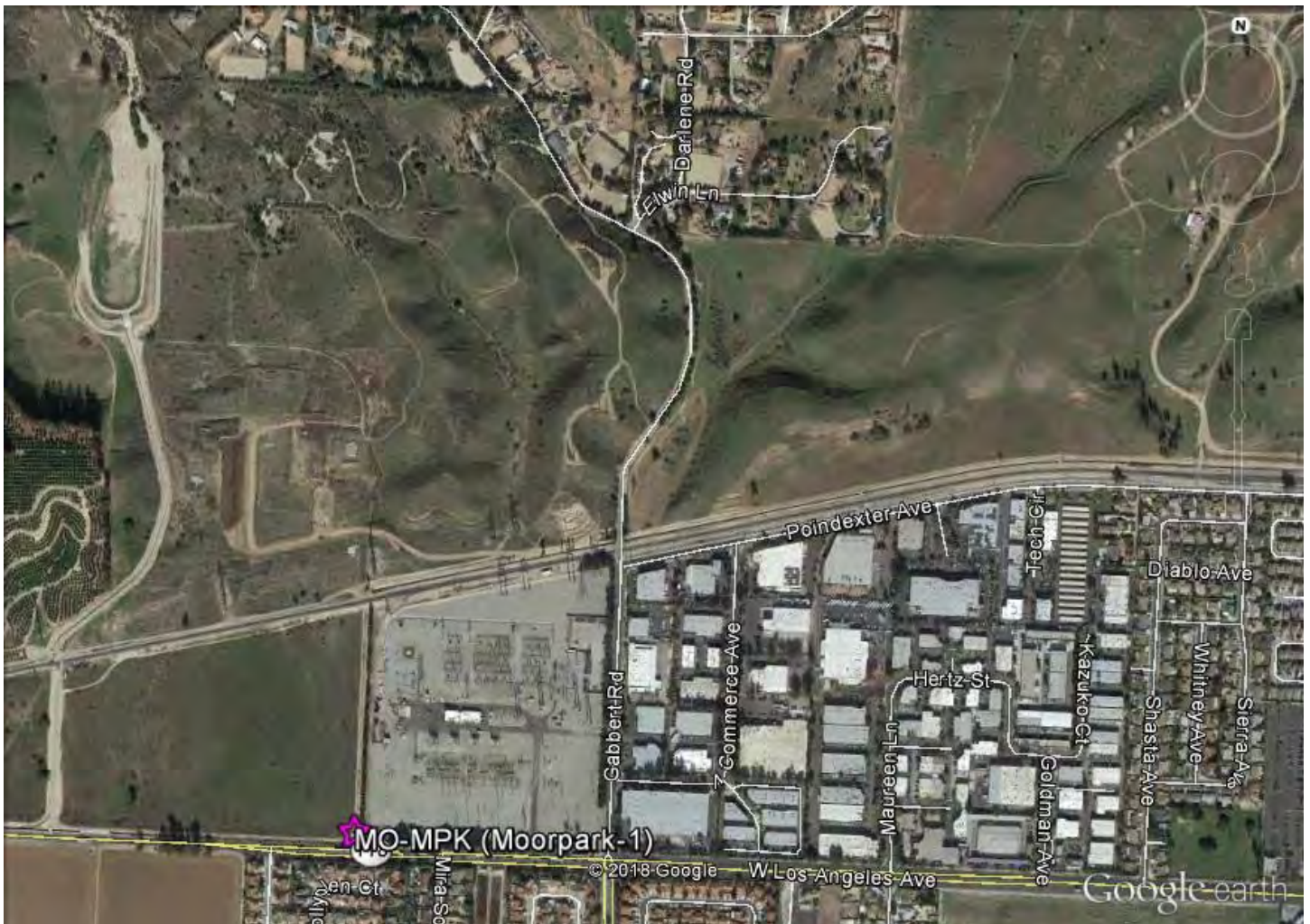
**Station:** MO-MPK (Moorpark-1)

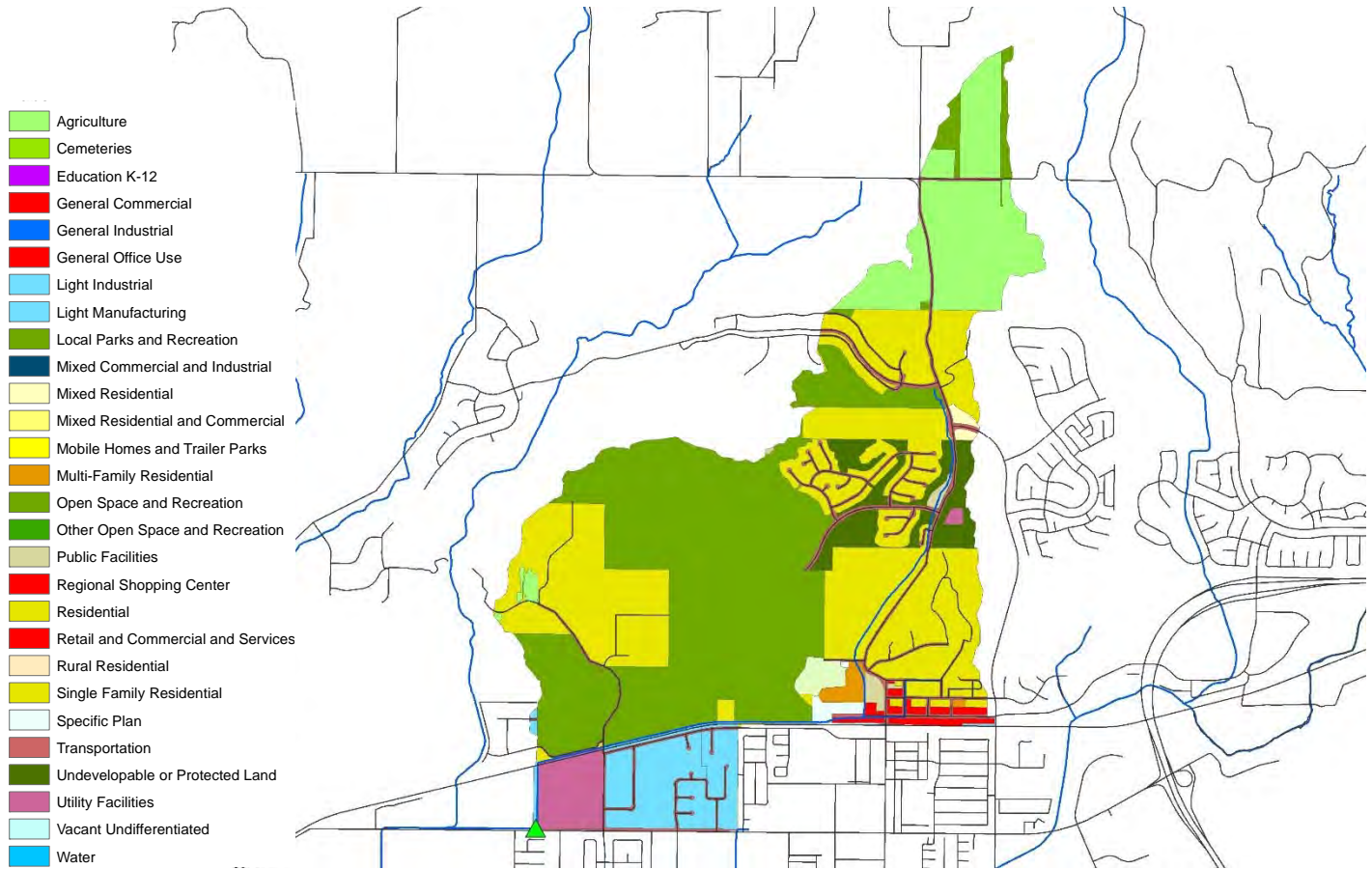
**Waterbody:** Walnut Canyon (tributary to Arroyo Simi)

**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

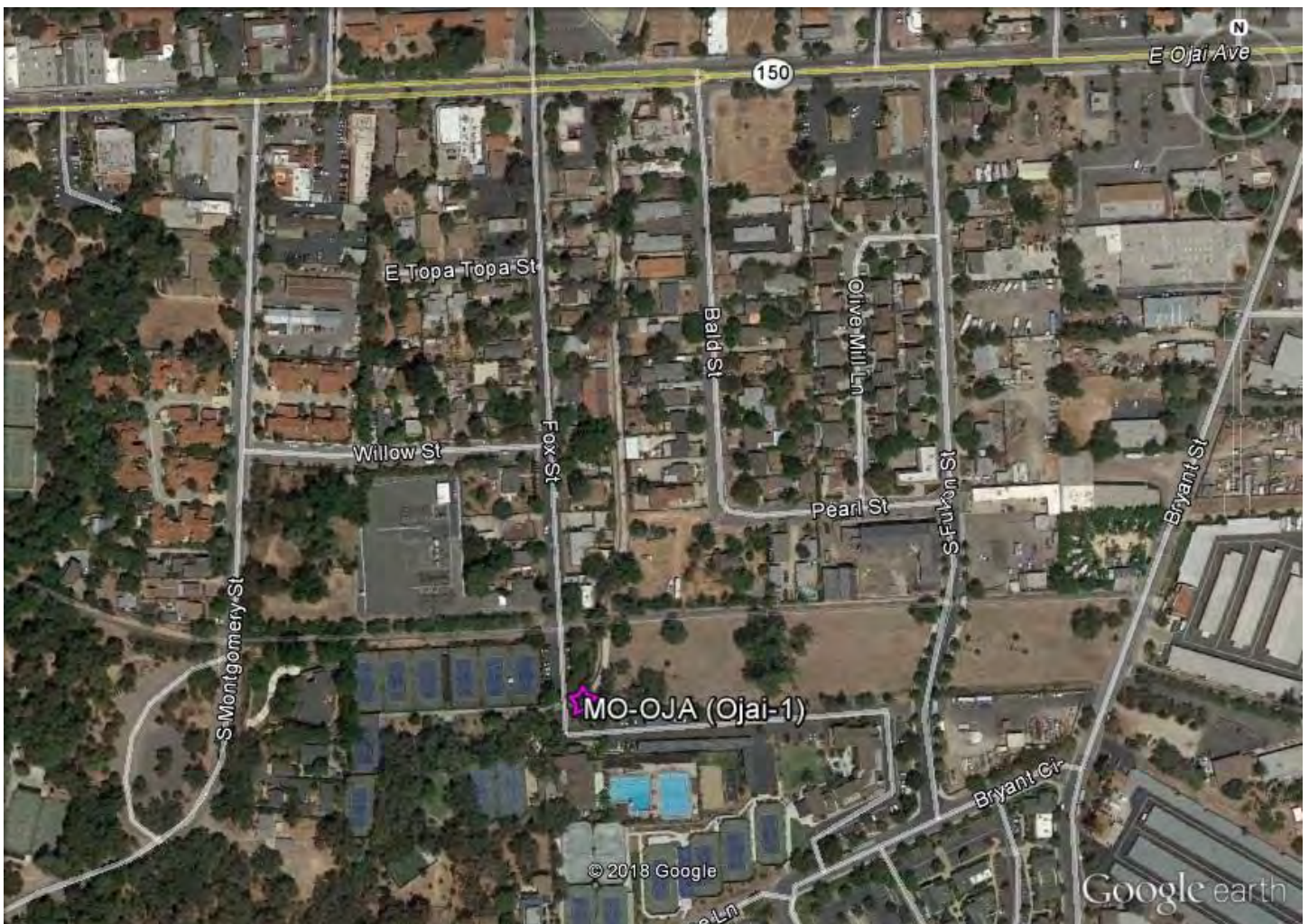
**Station:** MO-OJA (Ojai-1)

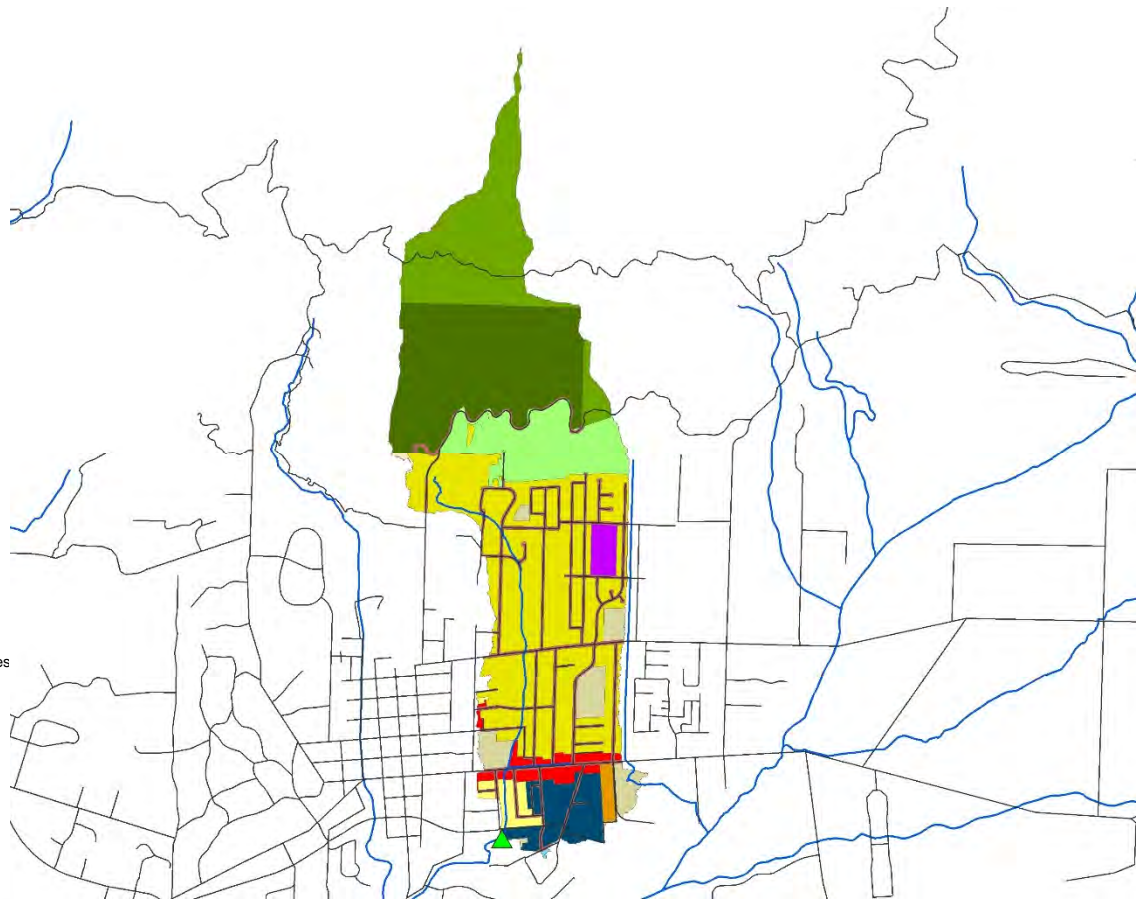
**Waterbody:** Fox Canyon Barranca (tributary to San Antonio Creek)

**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

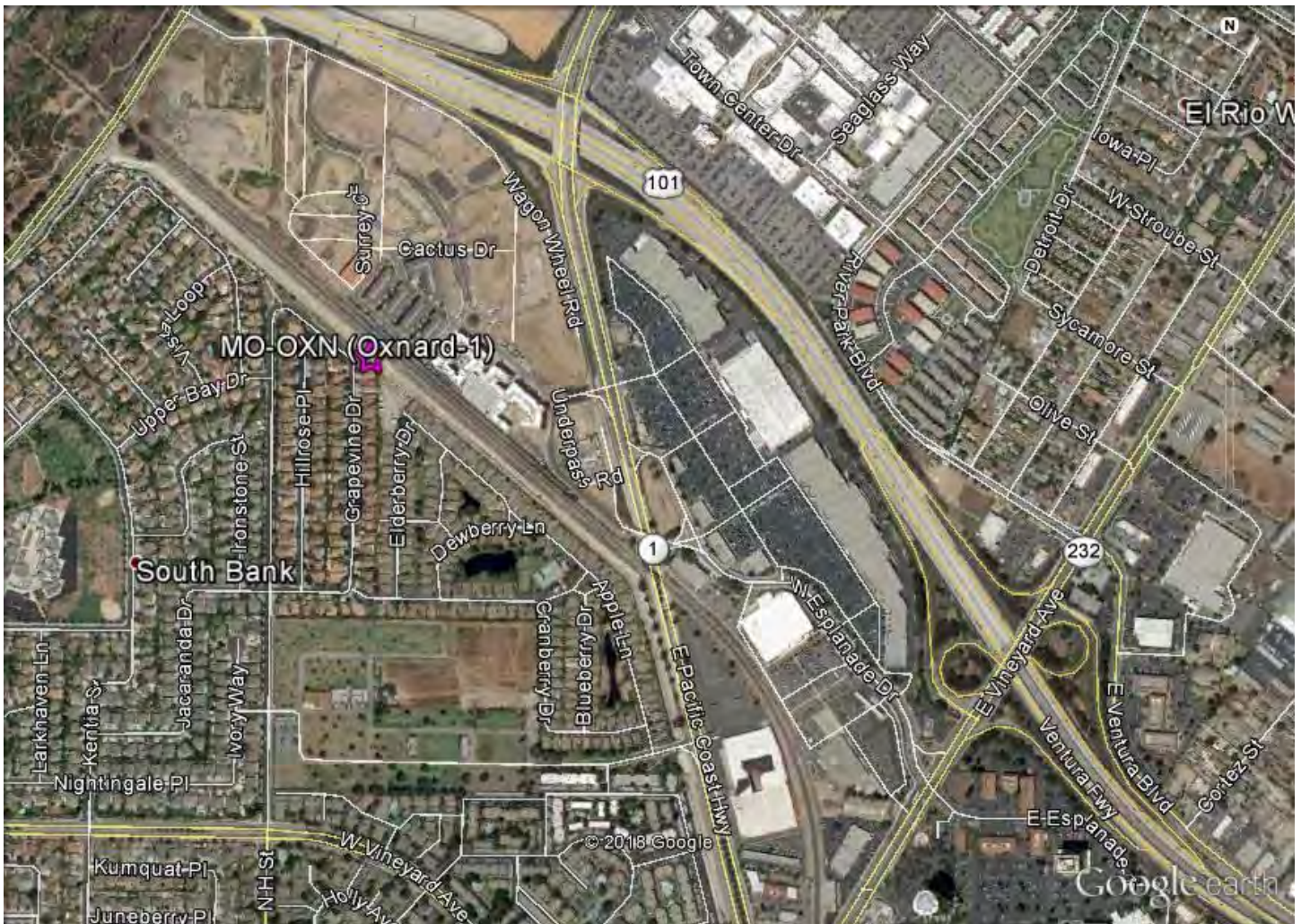
**Station:** MO-OXN (Oxnard-1)

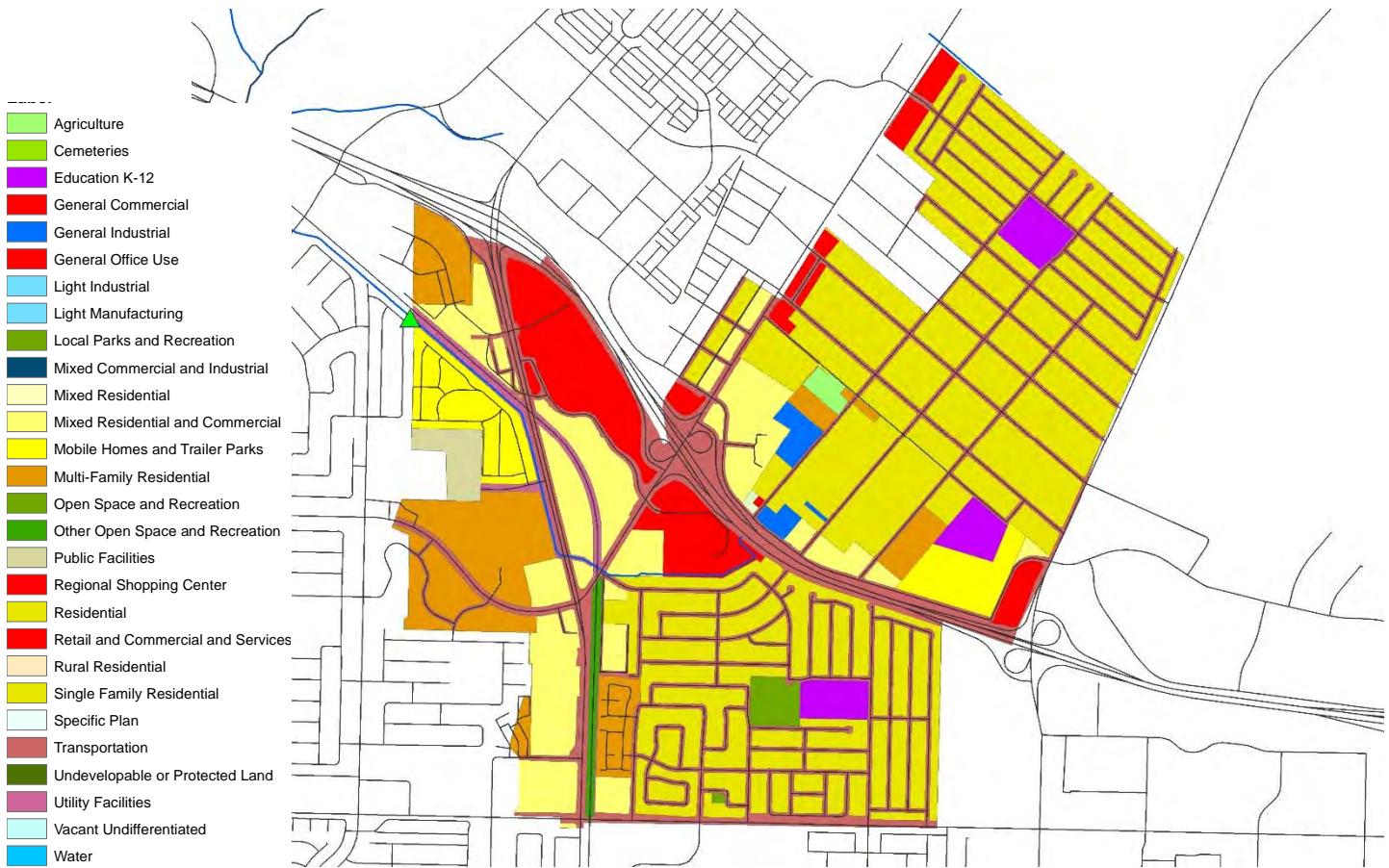
**Waterbody:** El Rio Drain (tributary to Santa Clara River)

**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)

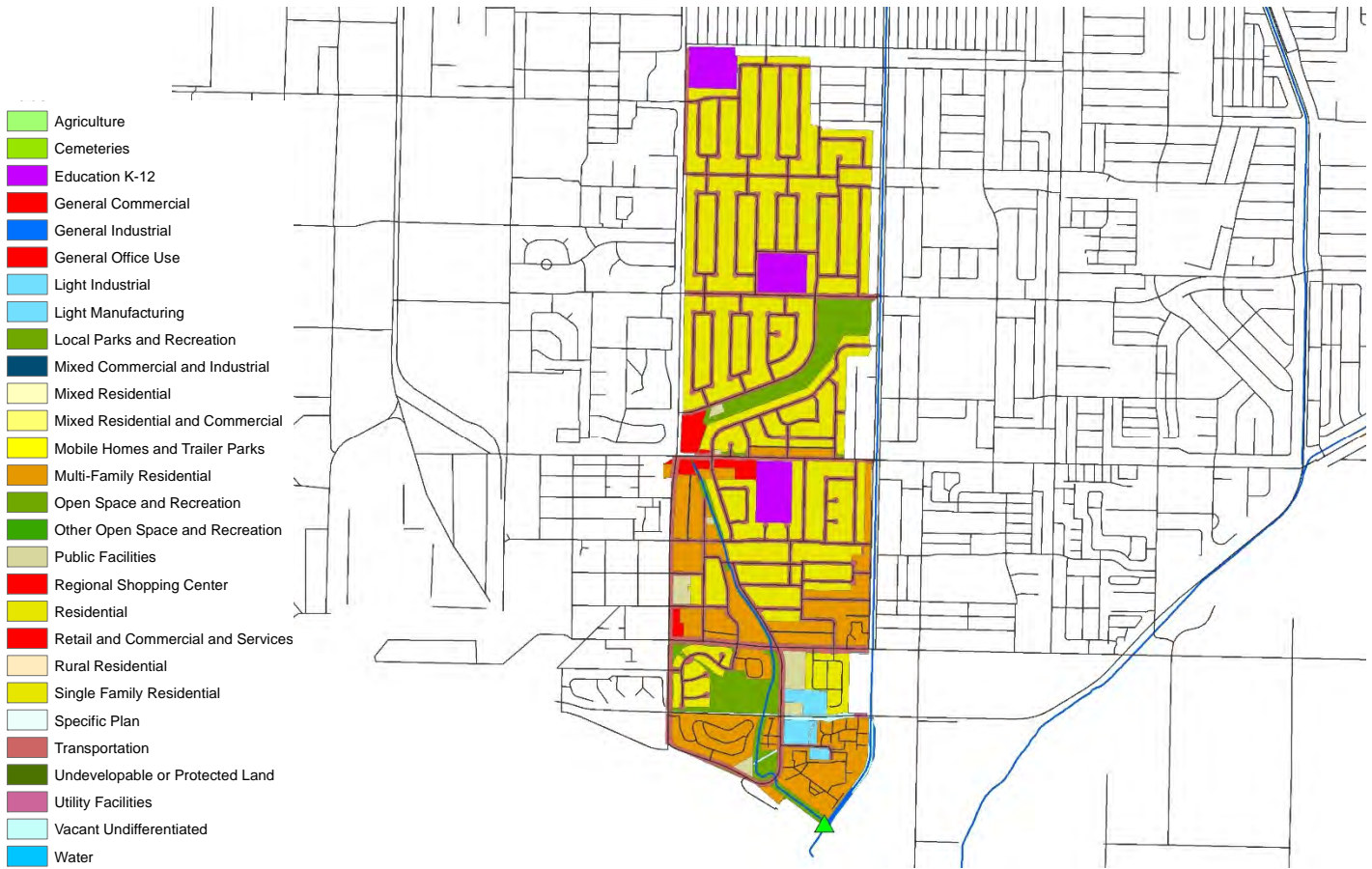
**Waterbody:** Hueneme Drain (tributary to Pacific Ocean)

**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

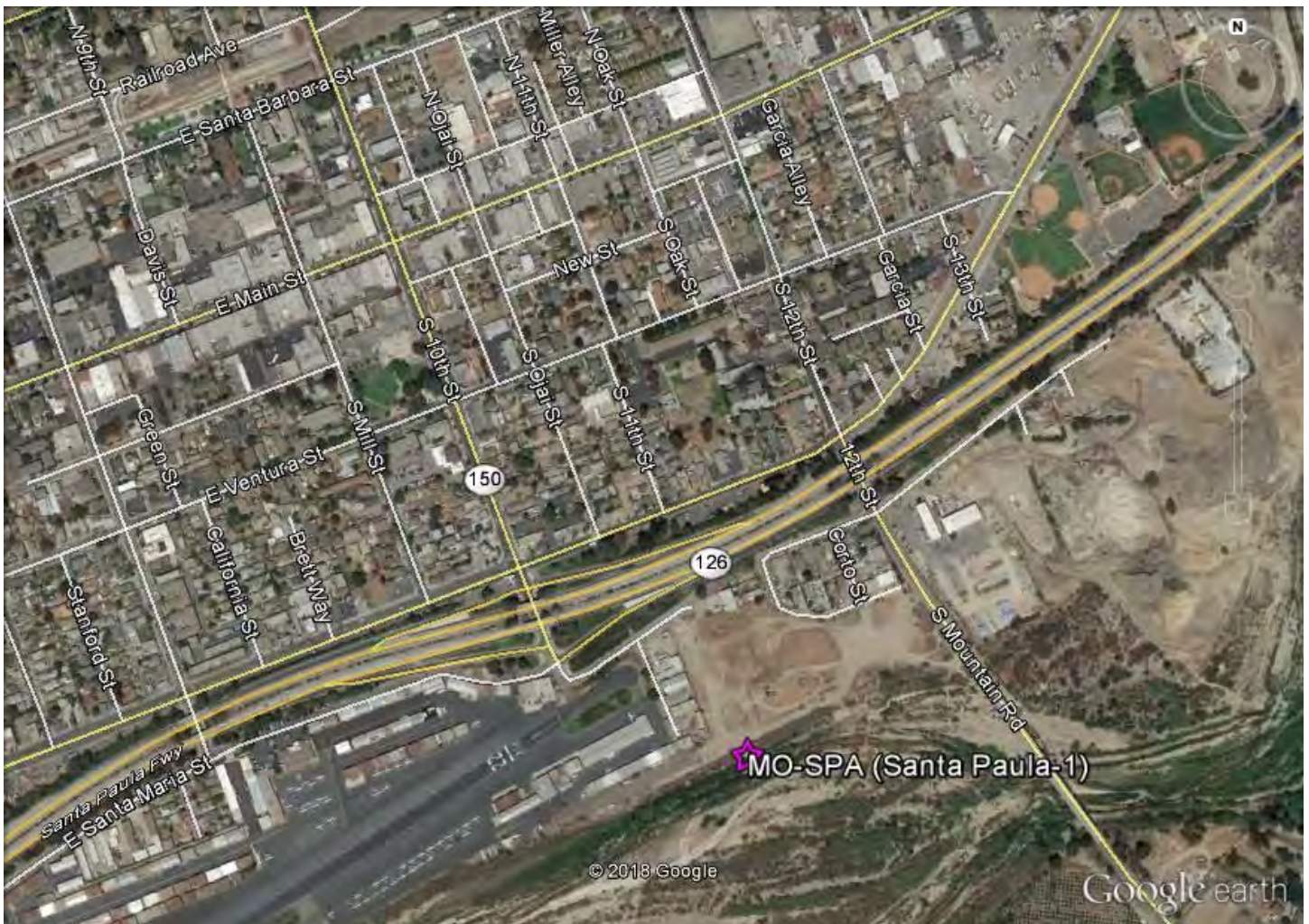
**Station:** MO-SPA (Santa Paula-1)

**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

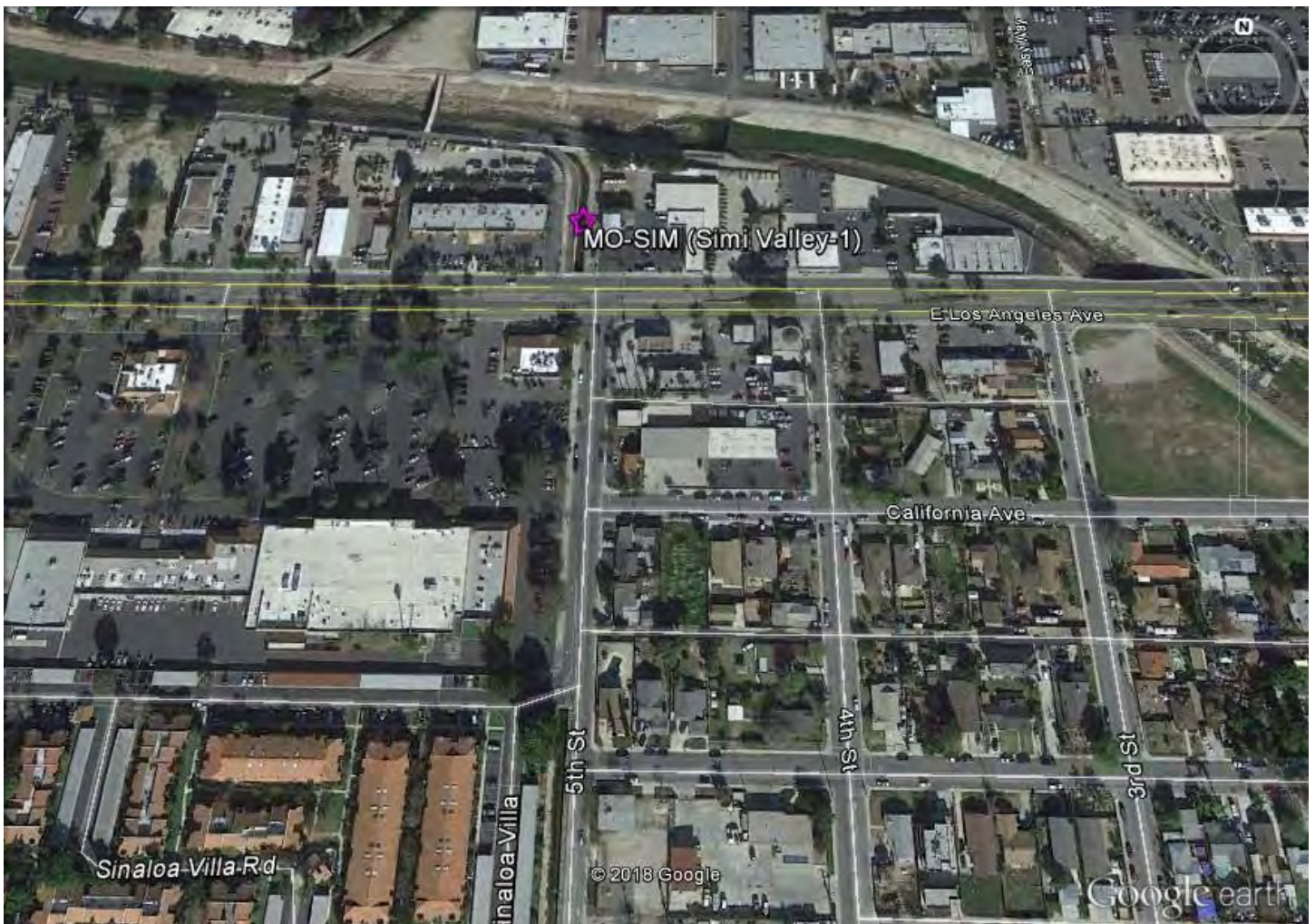
**Station:** MO-SIM (Simi Valley-1)

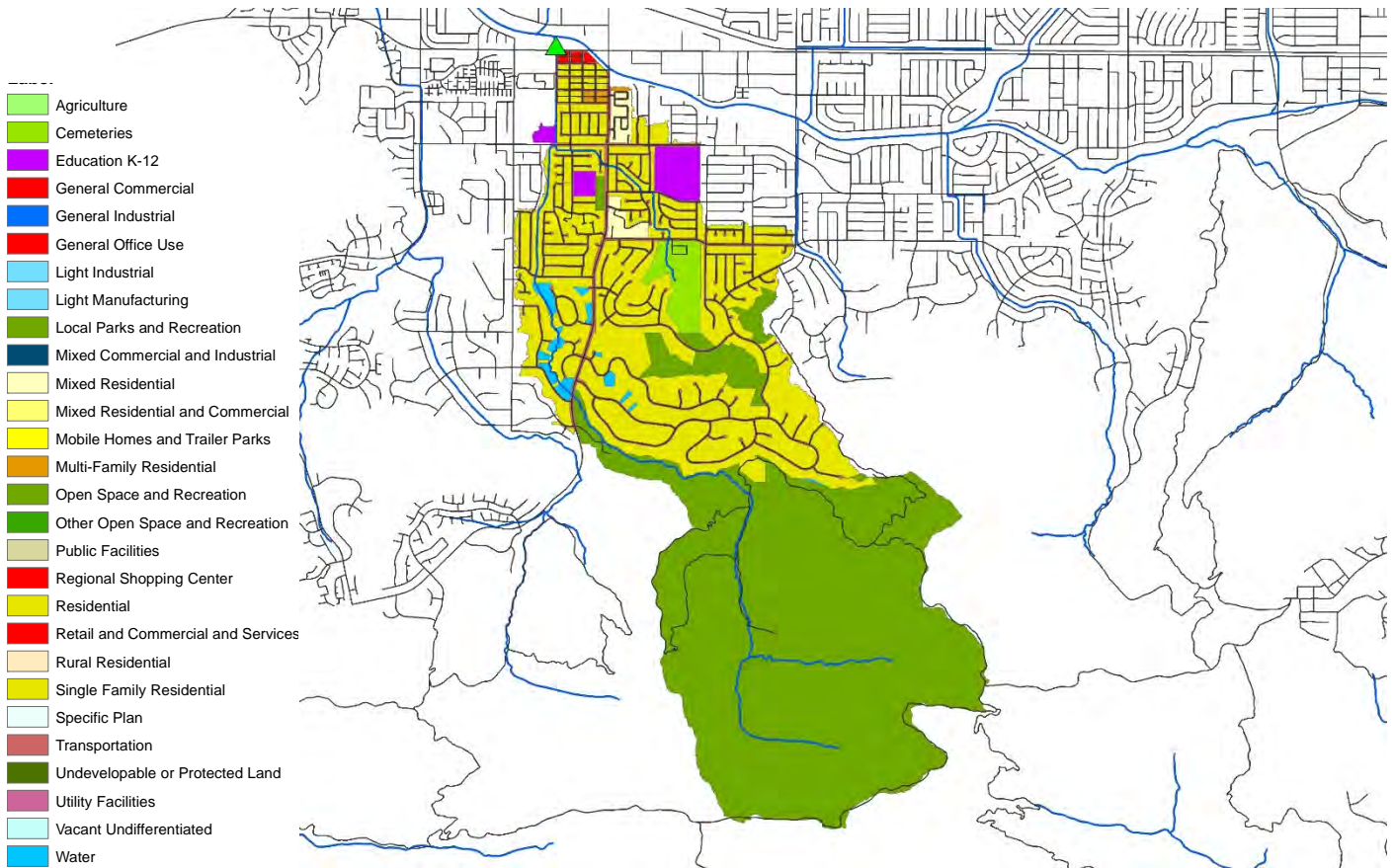
**Waterbody:** Bus Canyon Drain (tributary to Arroyo Simi)

**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)

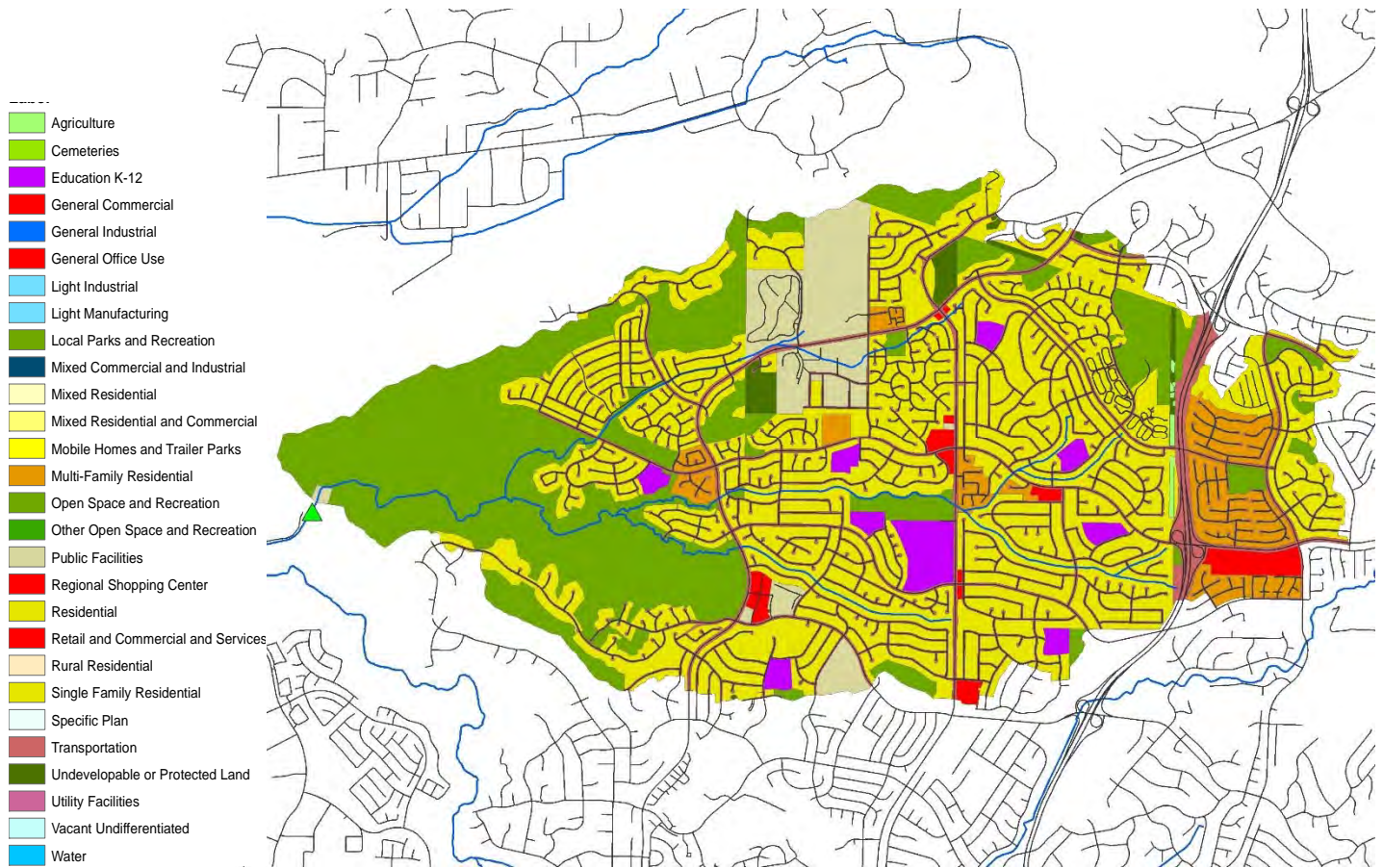
**Waterbody:** North Fork Arroyo Conejo (tributary to Conejo Creek)

**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

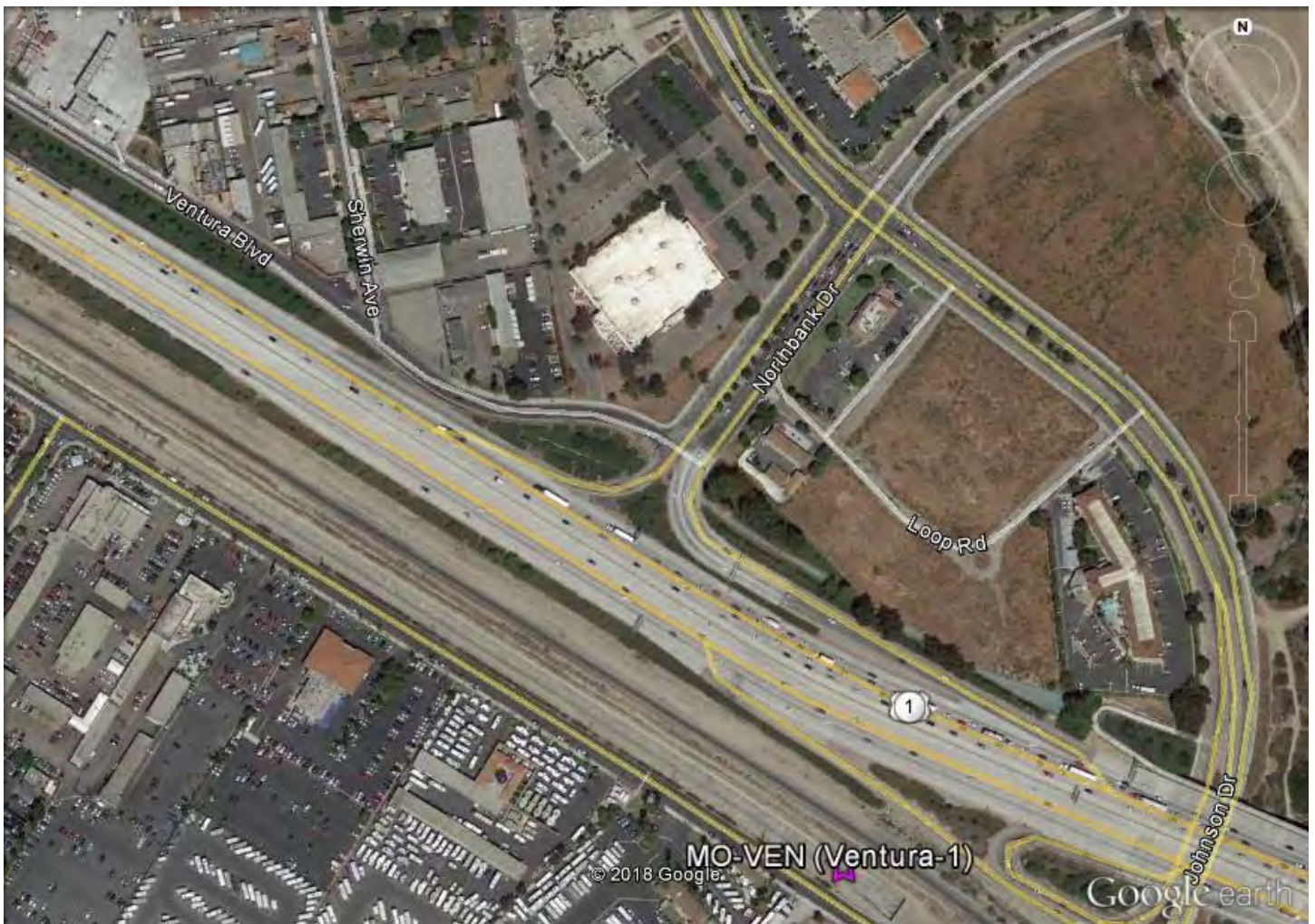
**Station:** MO-VEN (Ventura-1)

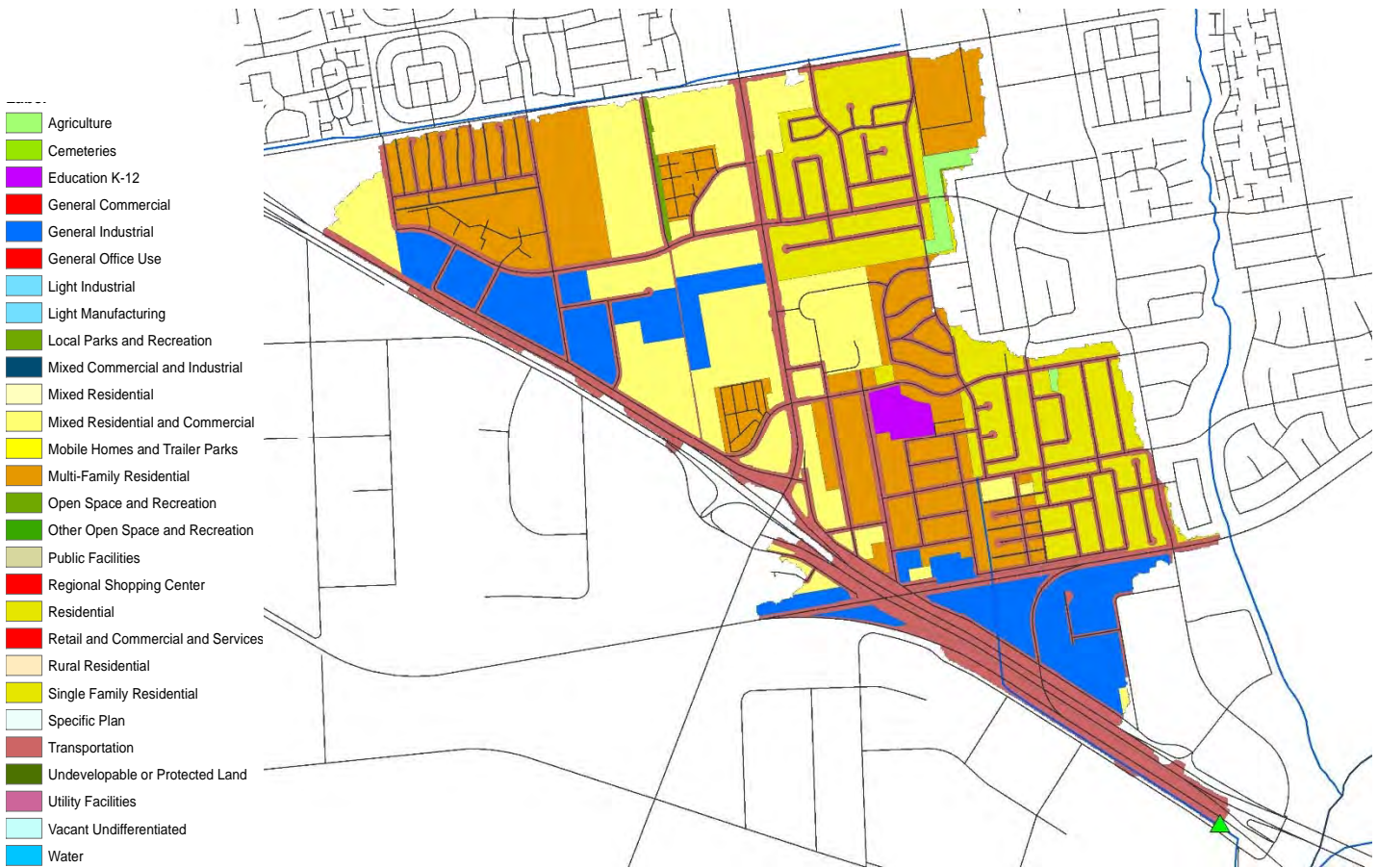
**Waterbody:** Moon Ditch (tributary to Santa Clara River)

**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

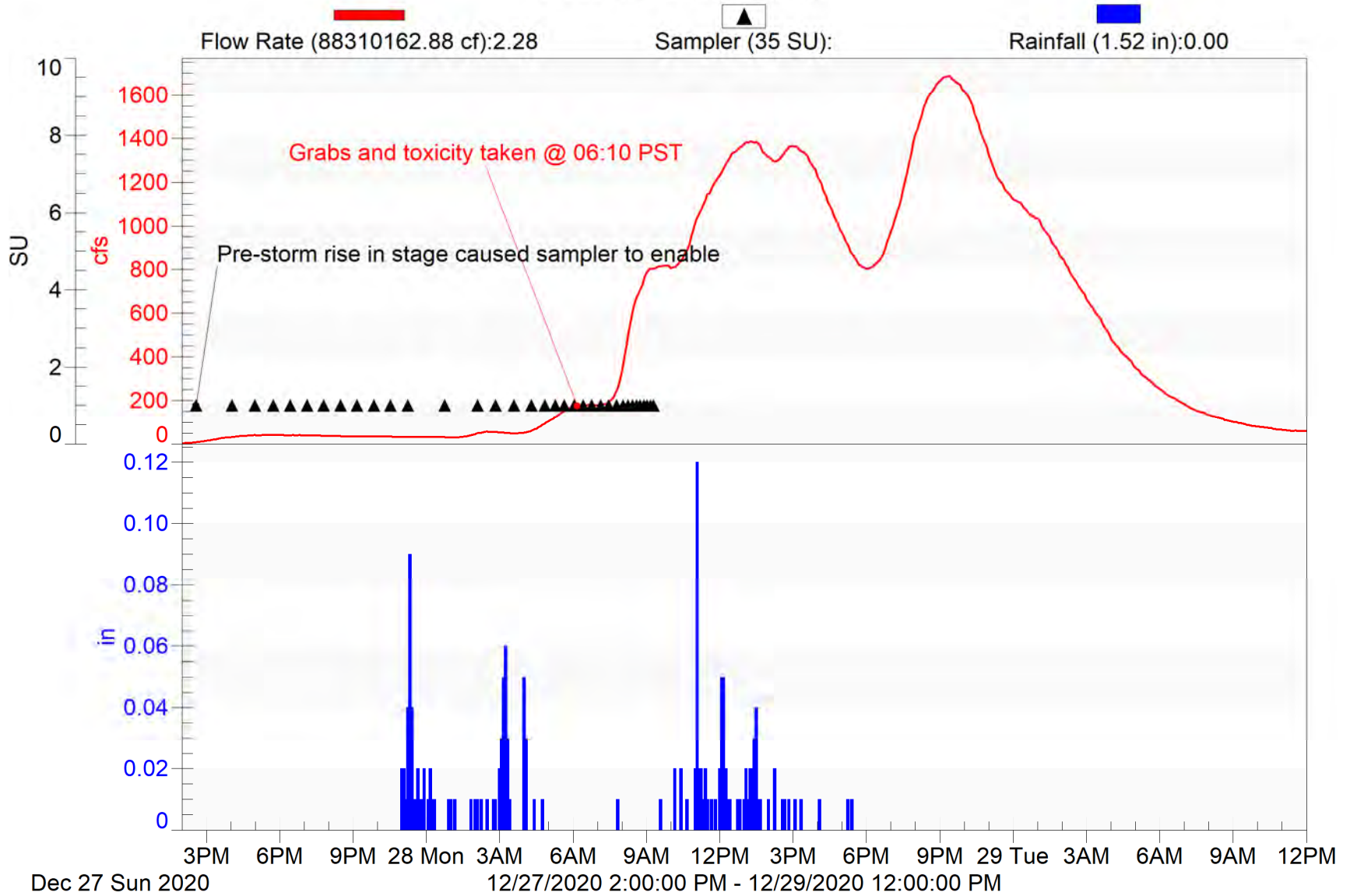
Land Use	Acres	% of Total Watershed
Agriculture	6.3	0.8%
Education K-12	6.8	0.9%
General Industrial	94.4	12.5%
Mixed Residential and Commercial	158.2	20.9%
Multi-Family Residential	161.0	21.3%
Open Space and Recreation	1.8	0.2%
Single Family Residential	123.7	16.4%
Transportation	203.1	26.9%
<b>Totals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



## Appendix B. Event Hydrographs

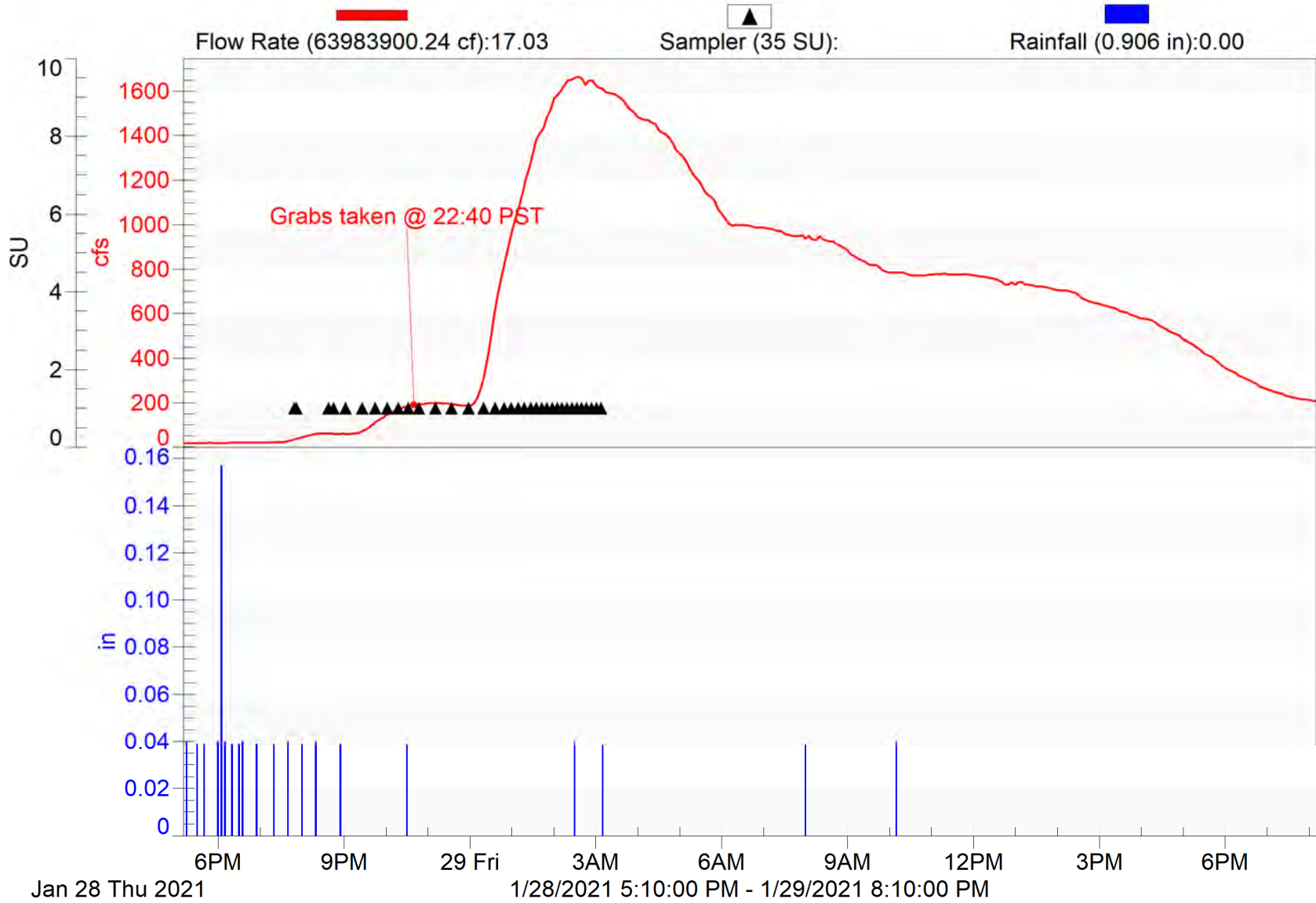
# ME-CC

2020/21 NPDES Event 1 (Wet)

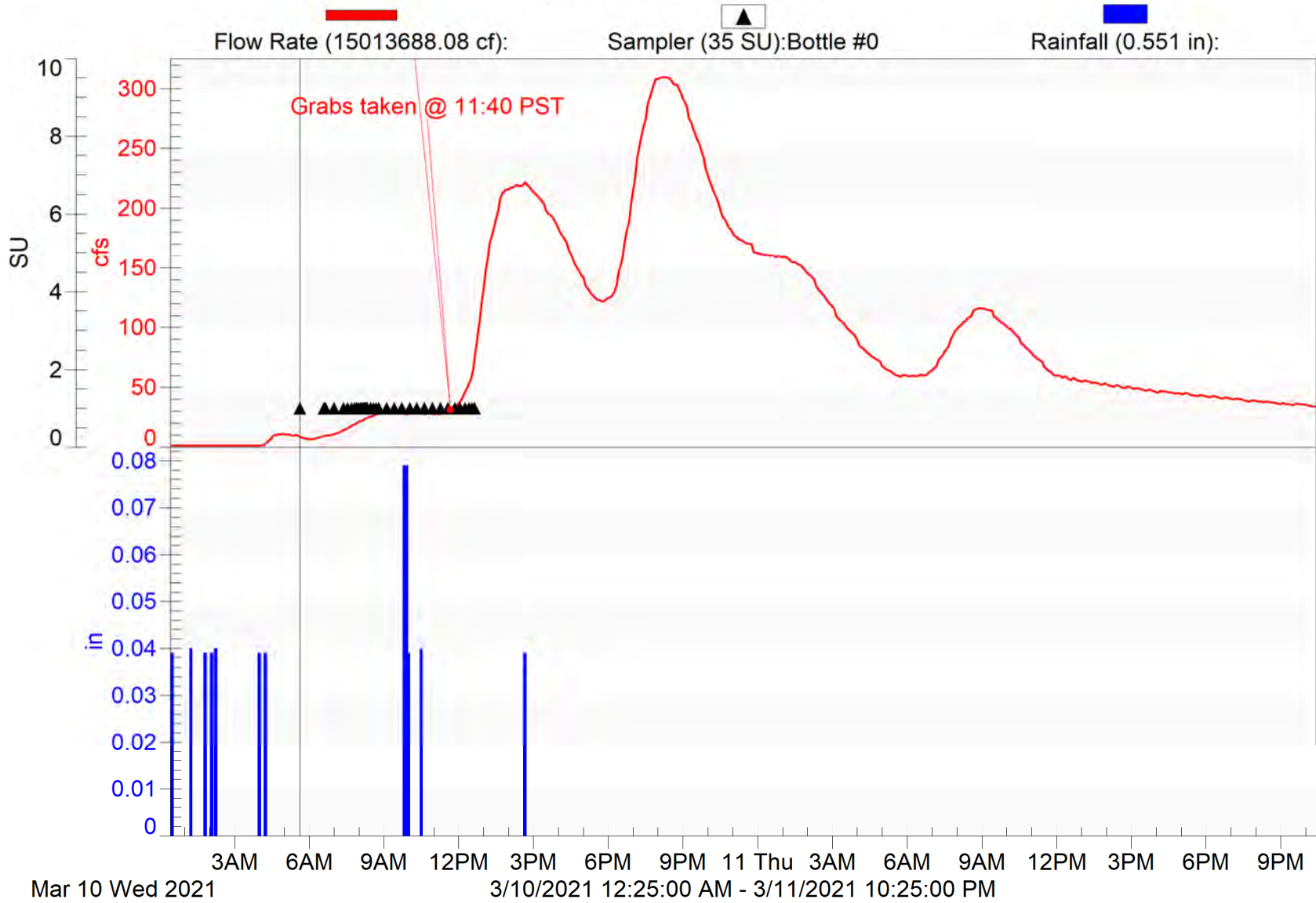


# ME-CC

2020/21 NPDES Event 2 (Wet)

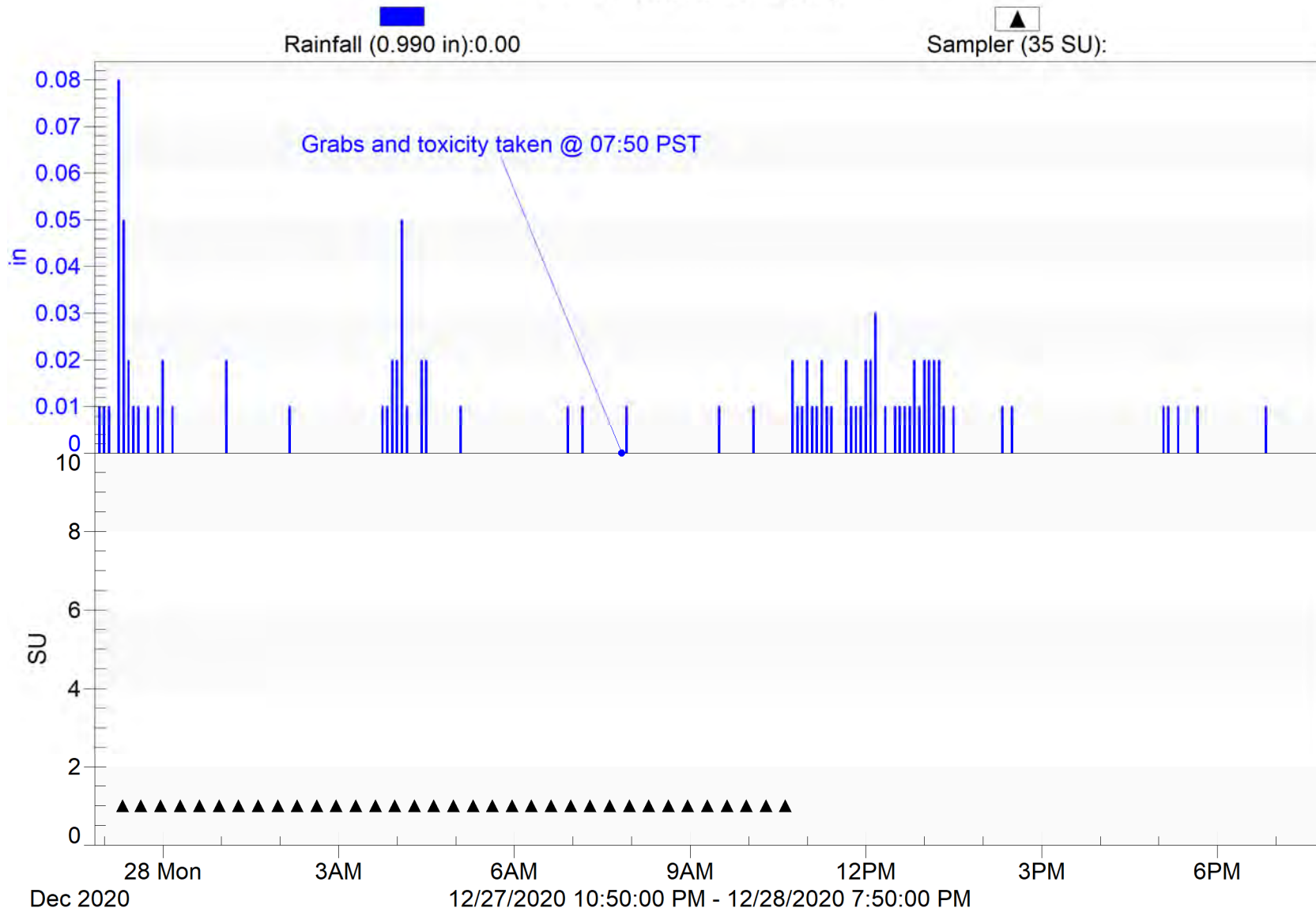


ME-CC  
2020/21 NPDES Event 3 (Wet)



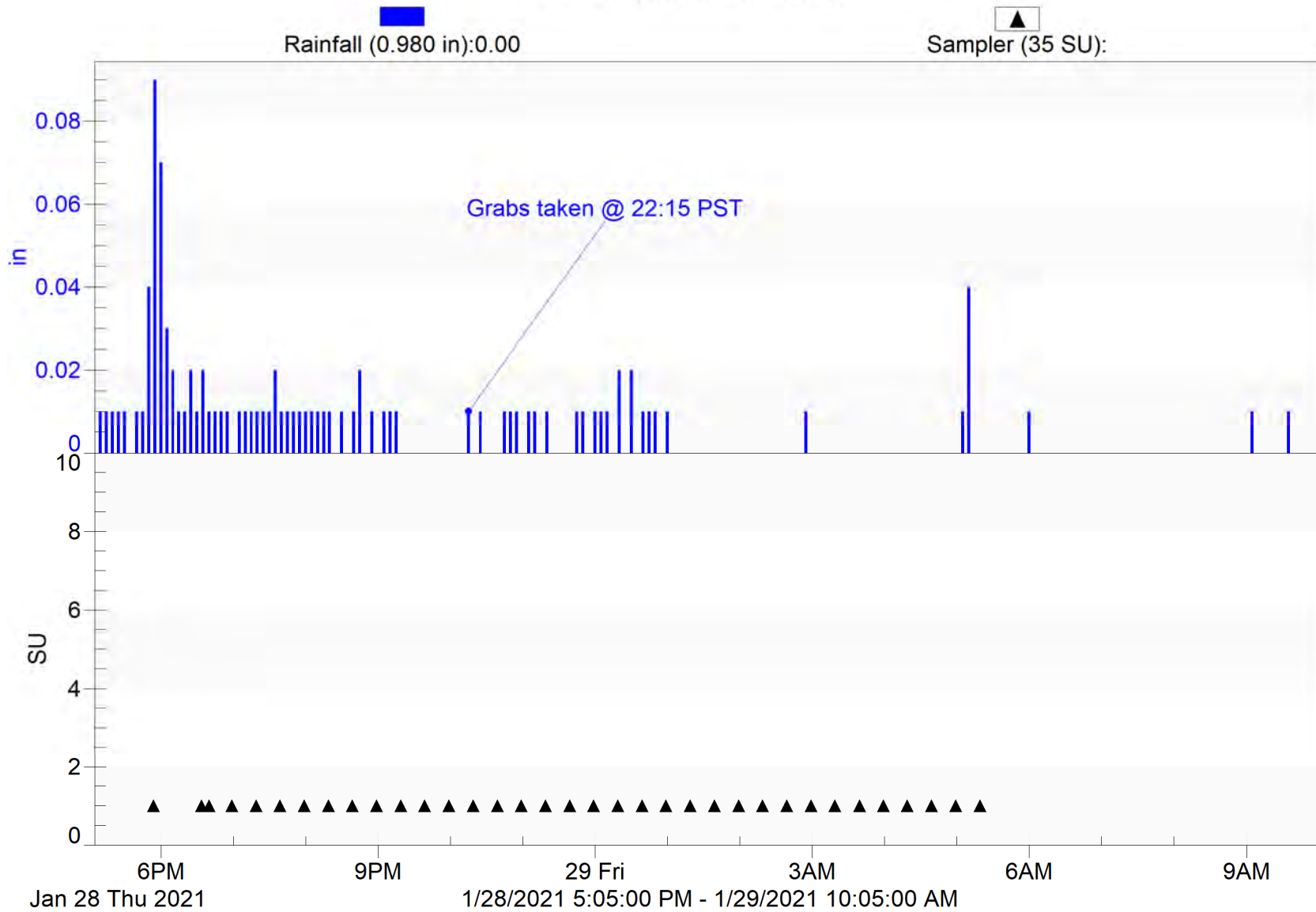
# ME-SCR

2020/21 NPDES Event #1 (Wet)



# ME-SCR

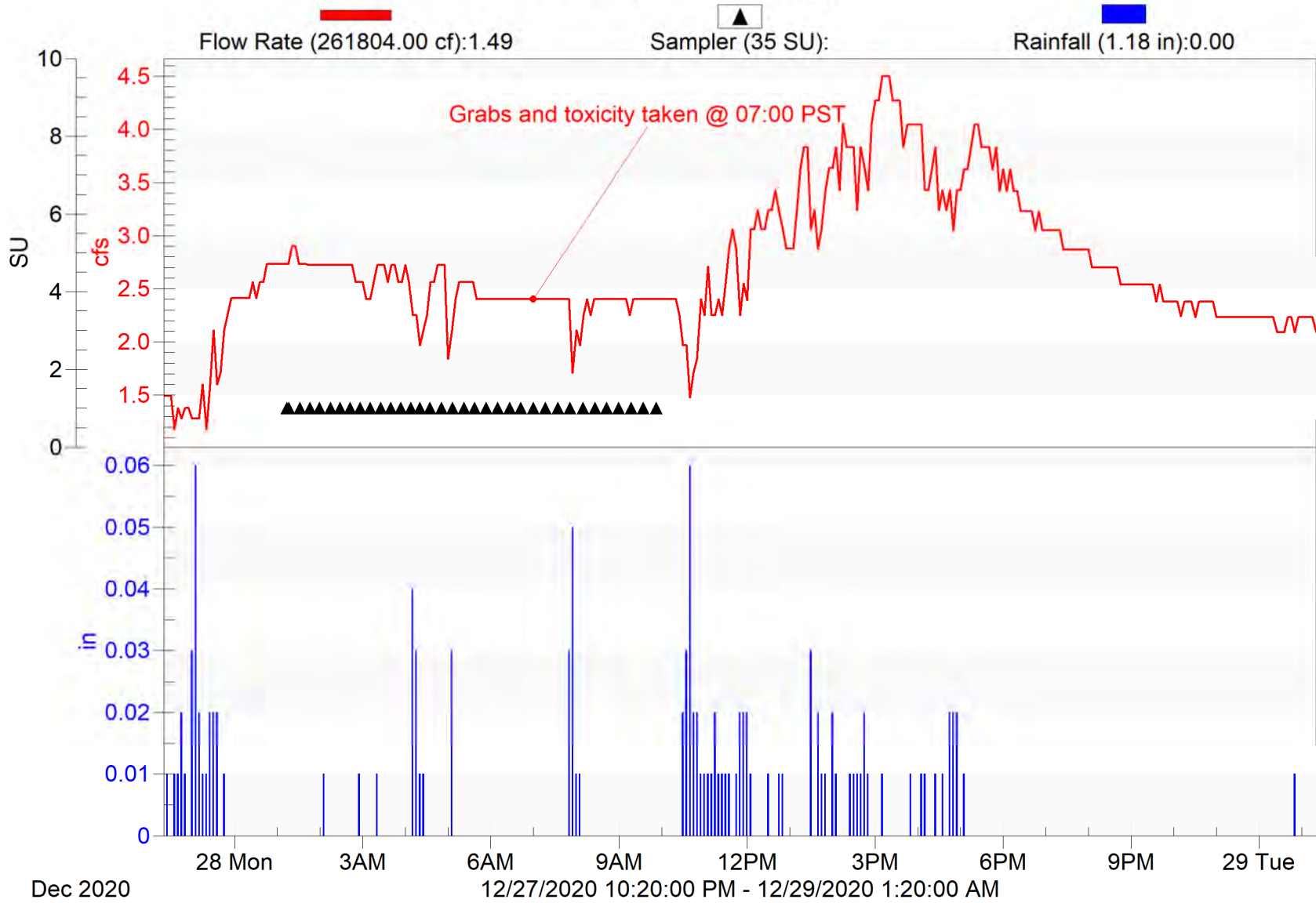
2020/21 NPDES Event #2 (Wet)





# ME-VR2

2020/21 NPDES Event #1 (Wet)

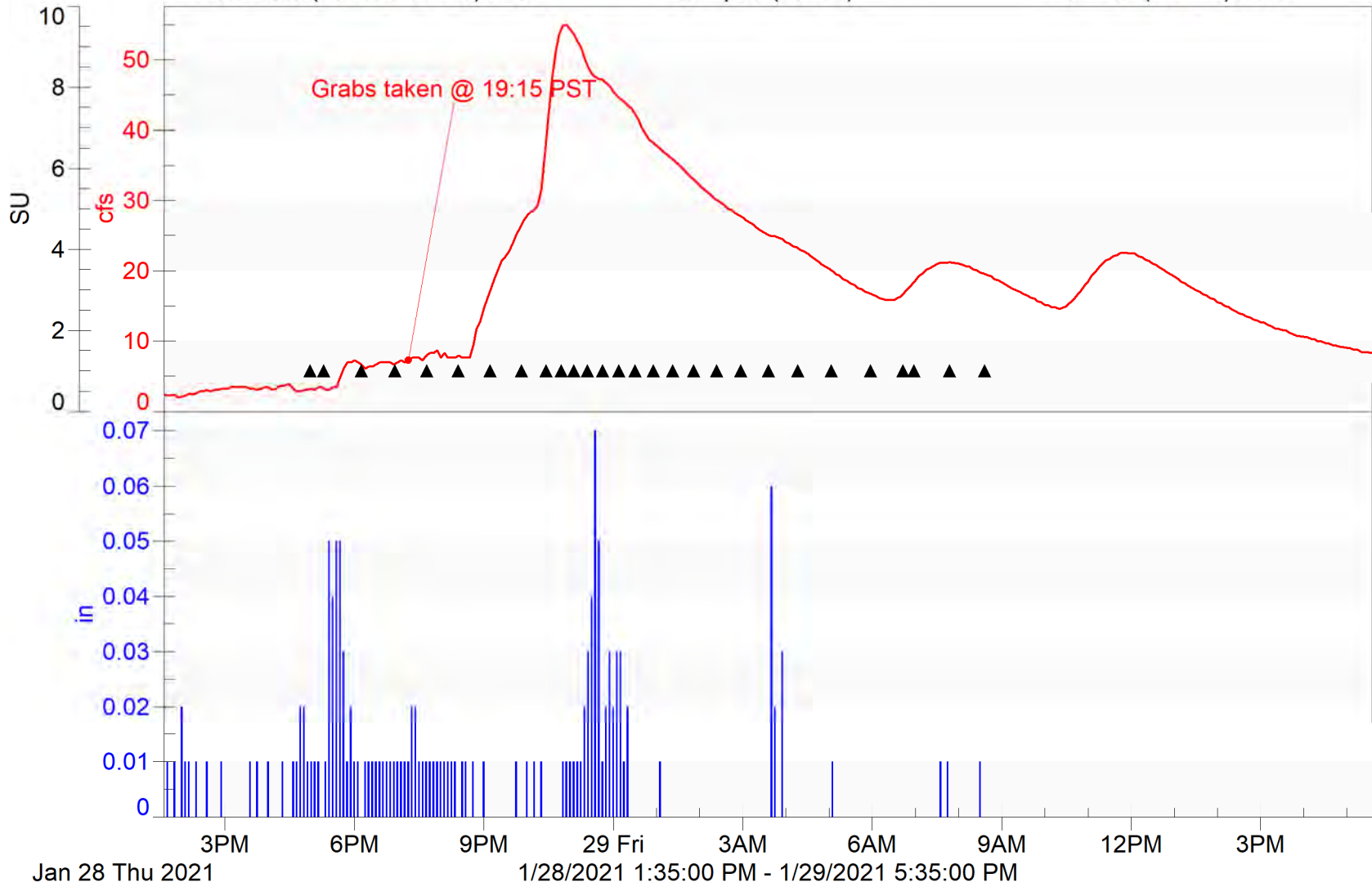




# ME-VR2

2020/21 NPDES Event #2 (Wet)

Flow Rate (1846715.02 cf):2.39      Sampler (28 SU):      Rainfall (1.47 in):0.00



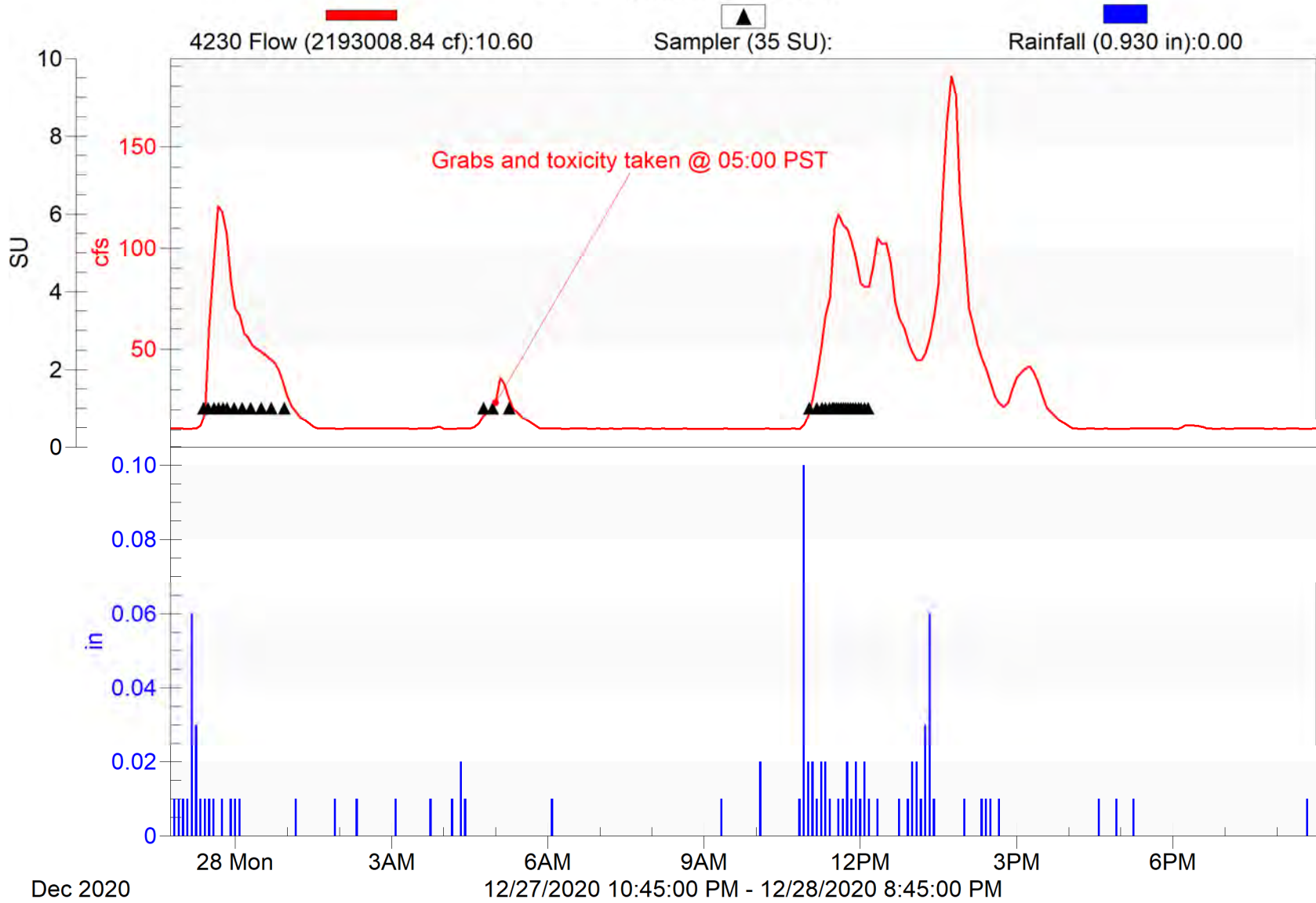
# ME-VR2

2020/21 NPDES Event #3 (Wet)



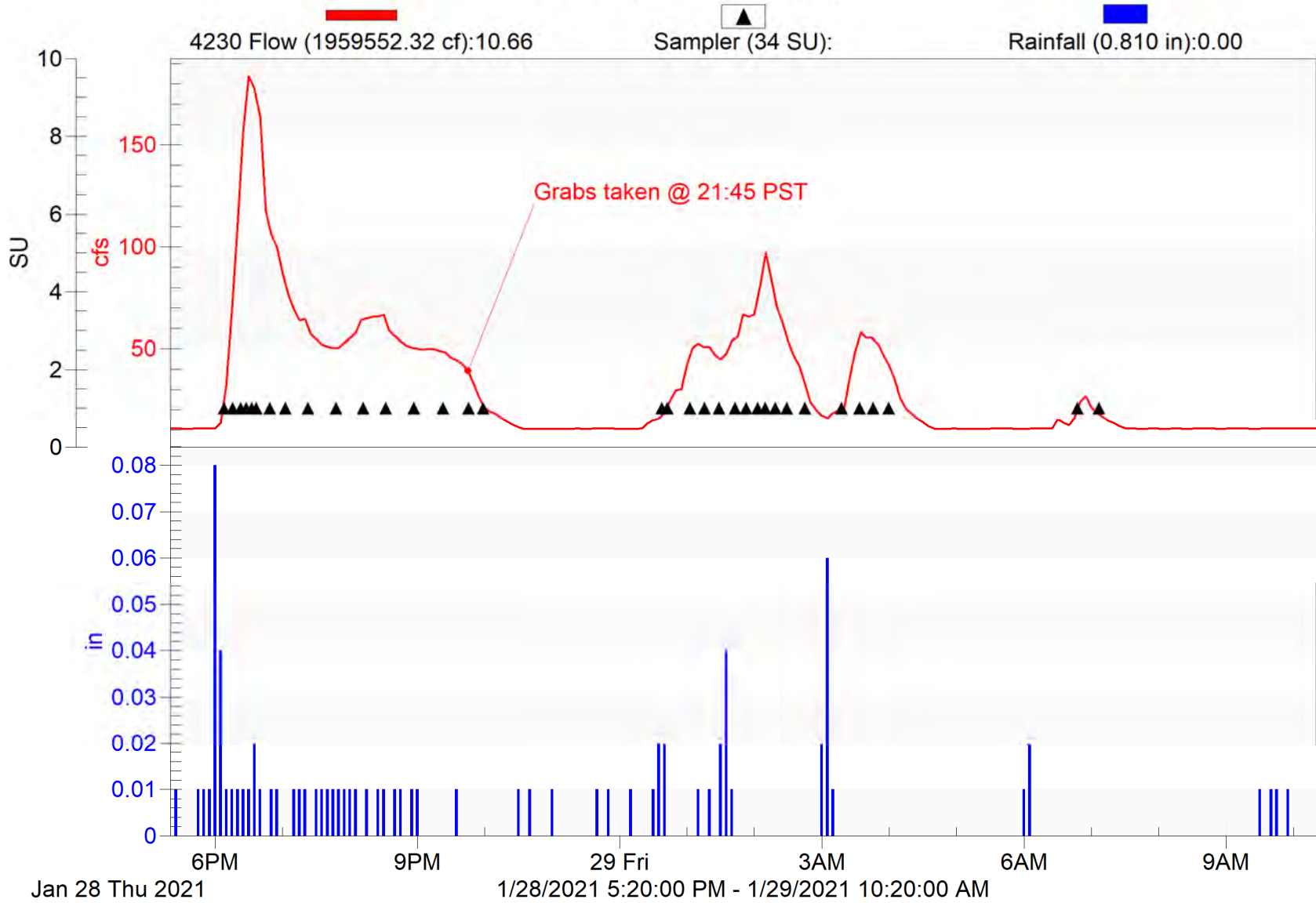
# Camarillo-1

2020/21 NPDES Event #1 (Wet)



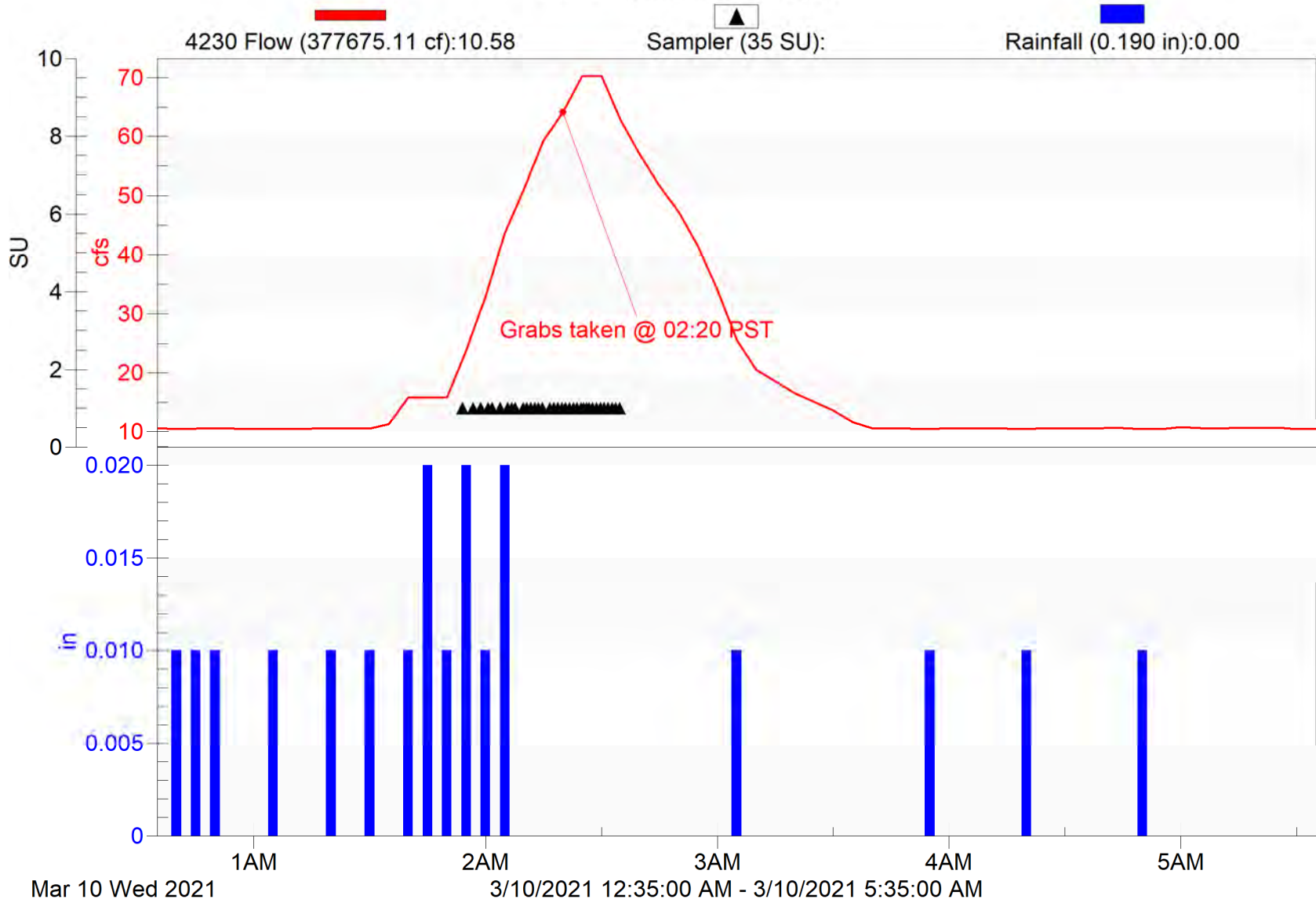
# Camarillo-1

2020/21 NPDES Event #2 (Wet)



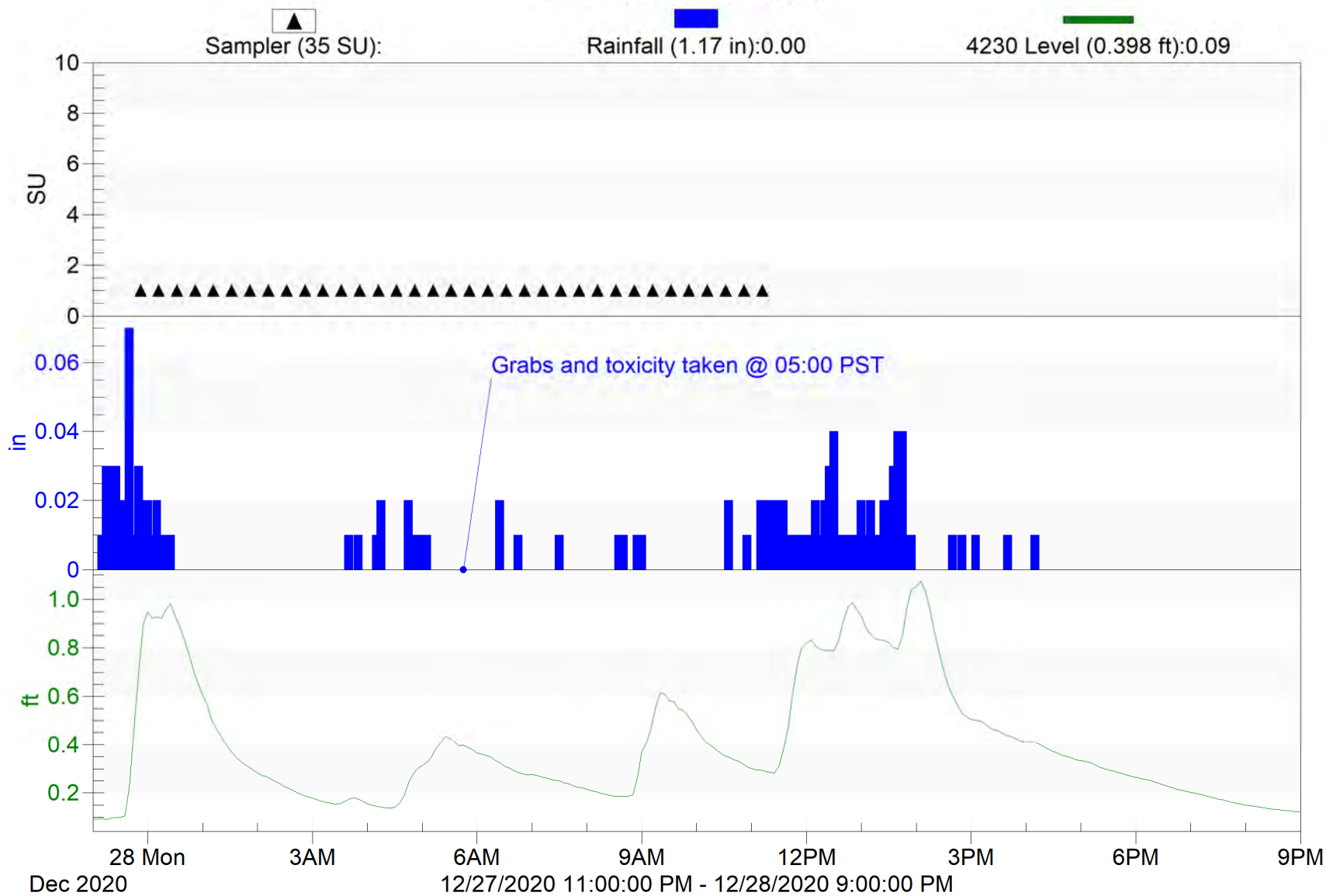
# Camarillo-1

2020/21 NPDES Event #3 (Wet)



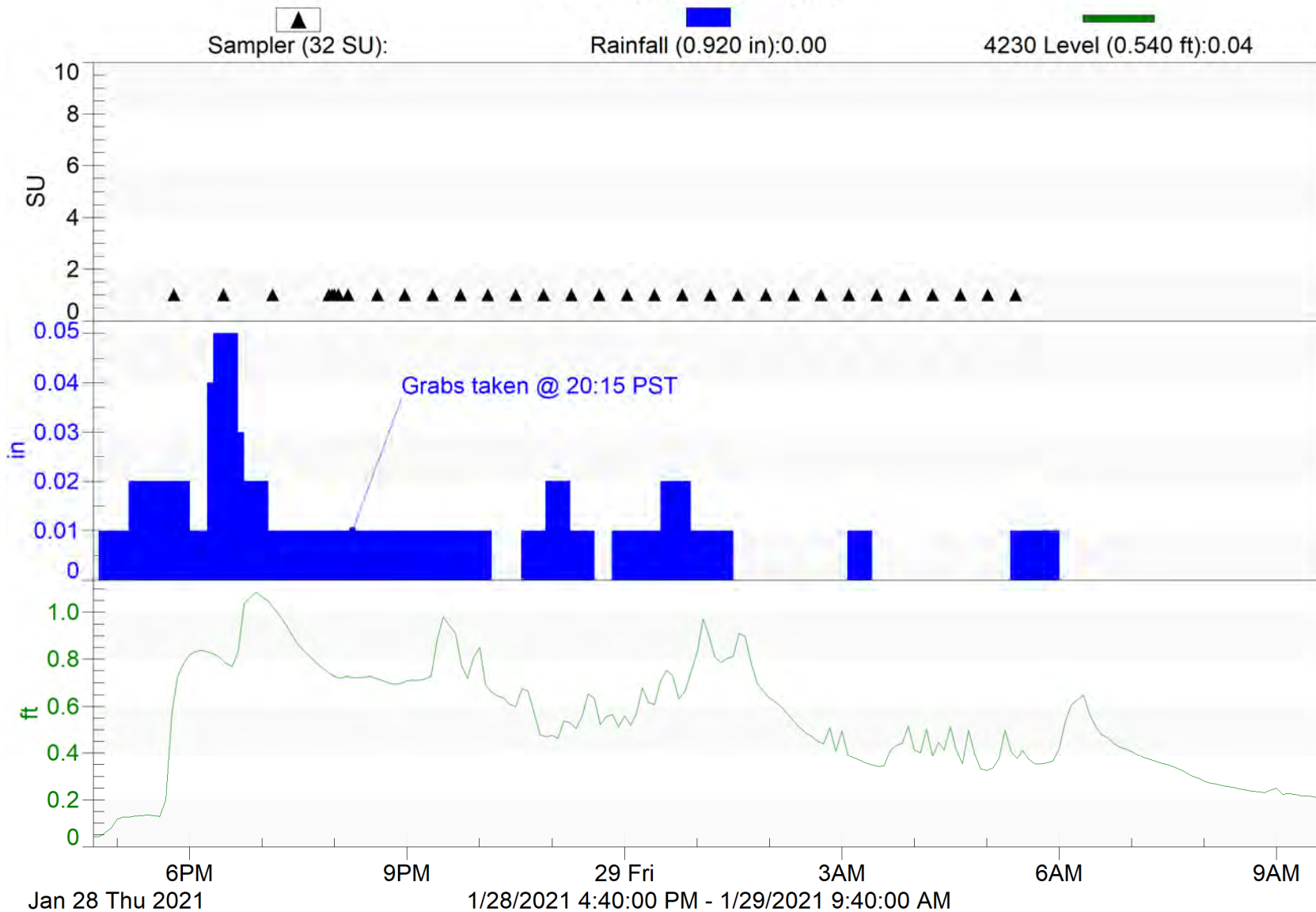
# Fillmore-1

2020/21 NPDES Event #1 (Wet)



# Fillmore-1

2020/21 NPDES Event #2 (Wet)





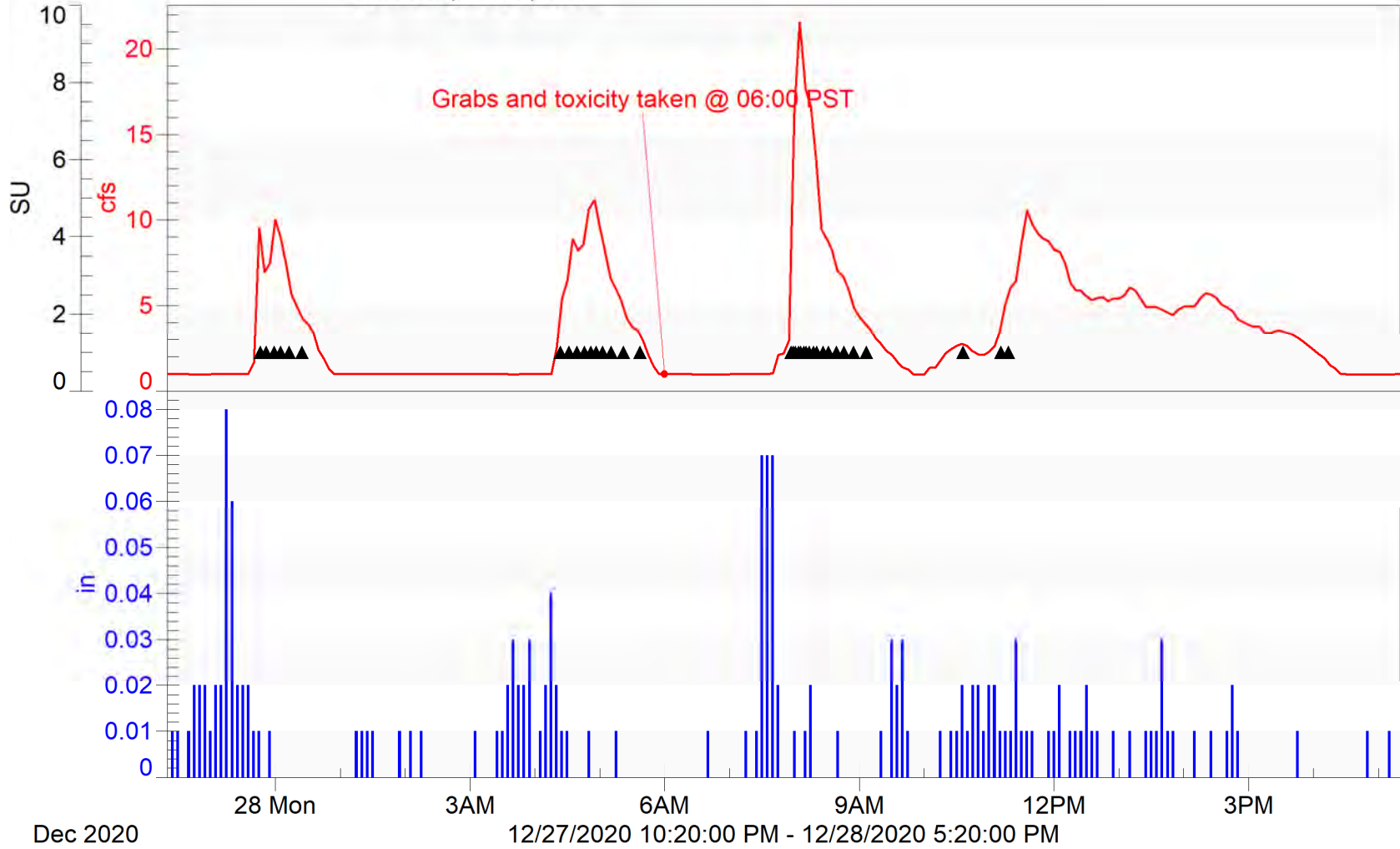


# Meiners Oaks-1

2020/21 NPDES Event #1 (Wet)

4230 Flow Rate (242679.57 cf):0.97  
Rainfall (1.67 in):0.00

Sampler (35 SU):

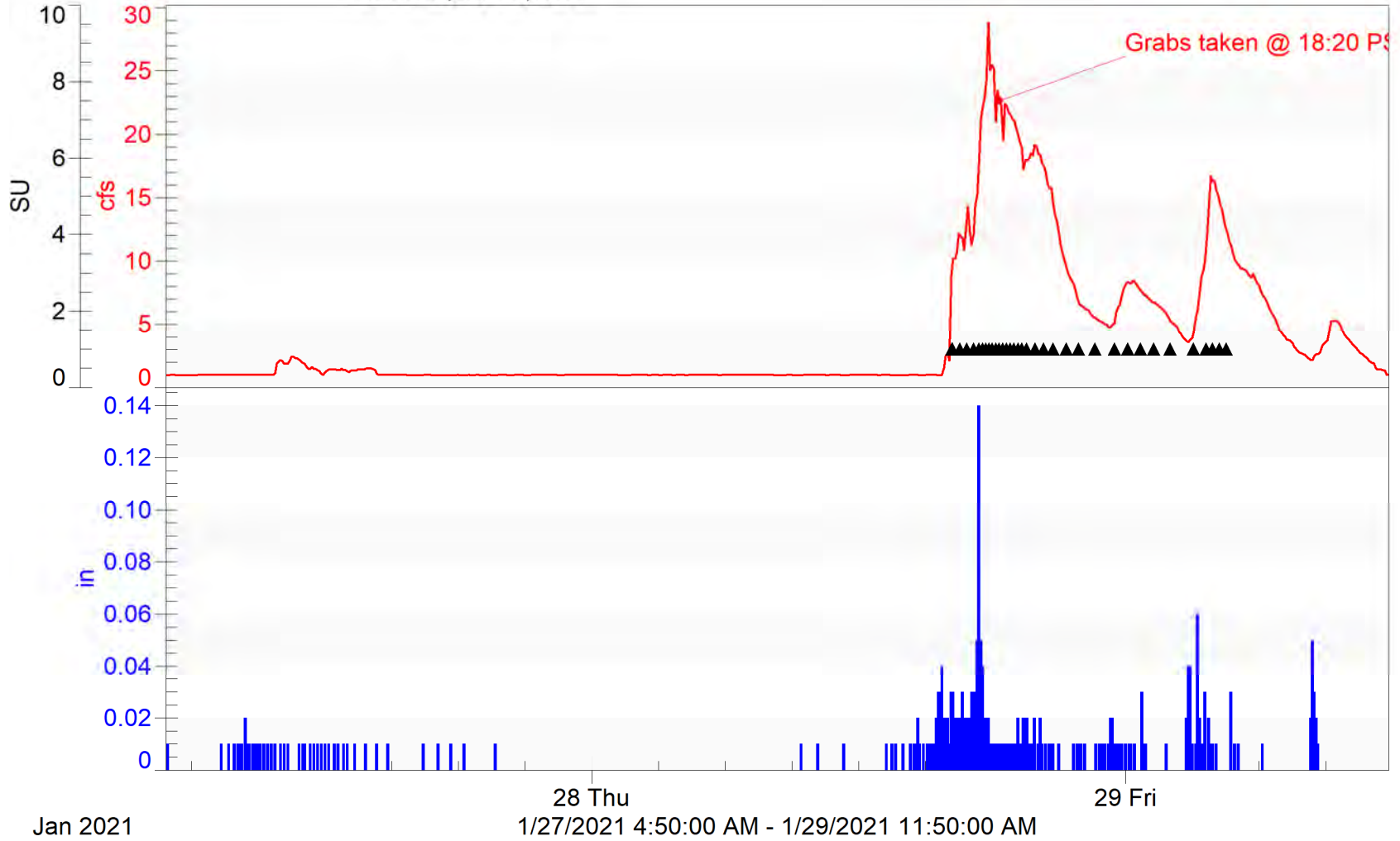


# Meiners Oaks-1

2020/21 NPDES Event #2 (Wet)

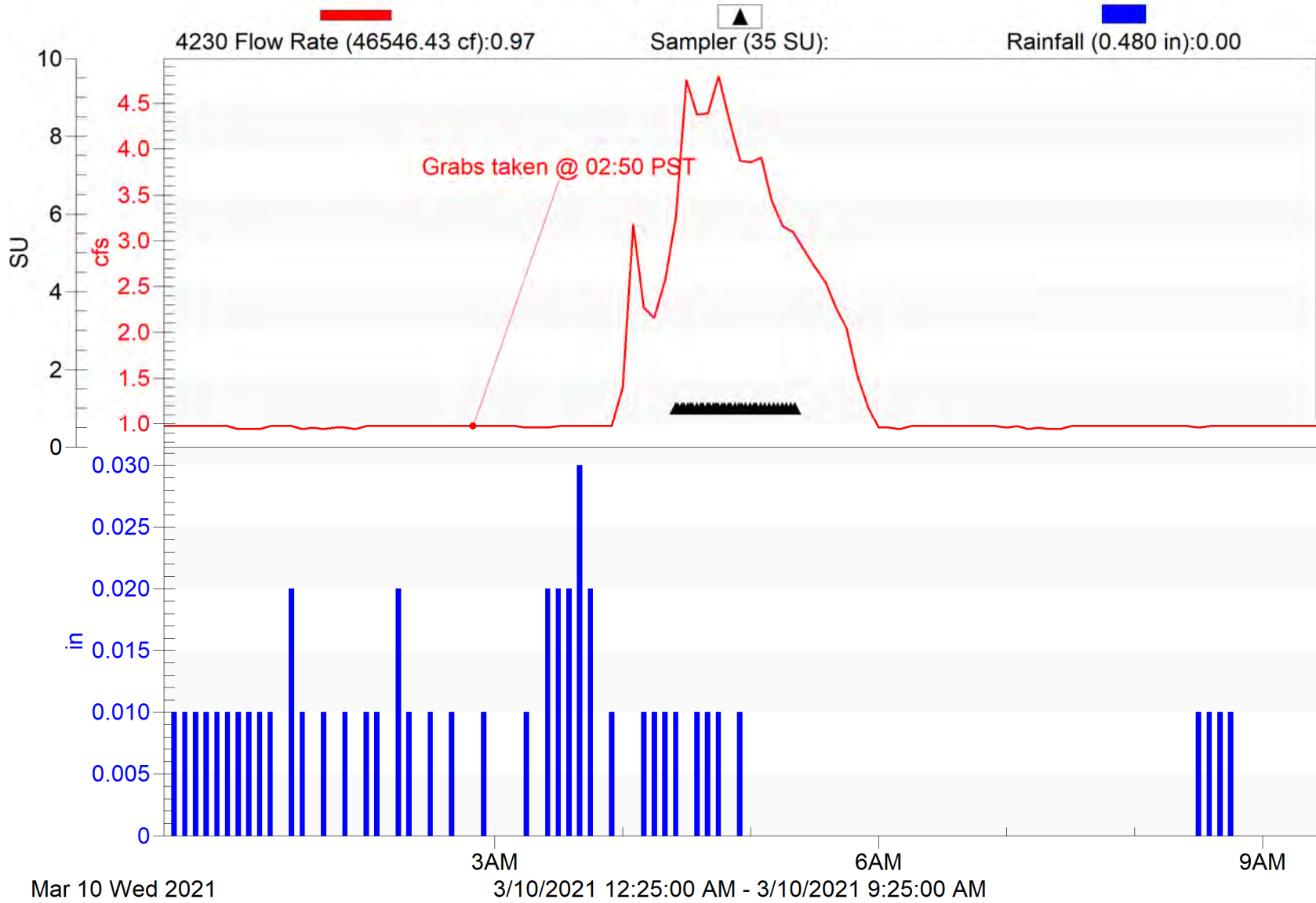
4230 Flow Rate (778661.19 cf):0.92  
Rainfall (2.69 in):0.00

Sampler (35 SU):



# Meiners Oaks-1

2020/21 NPDES Event #3 (Wet)

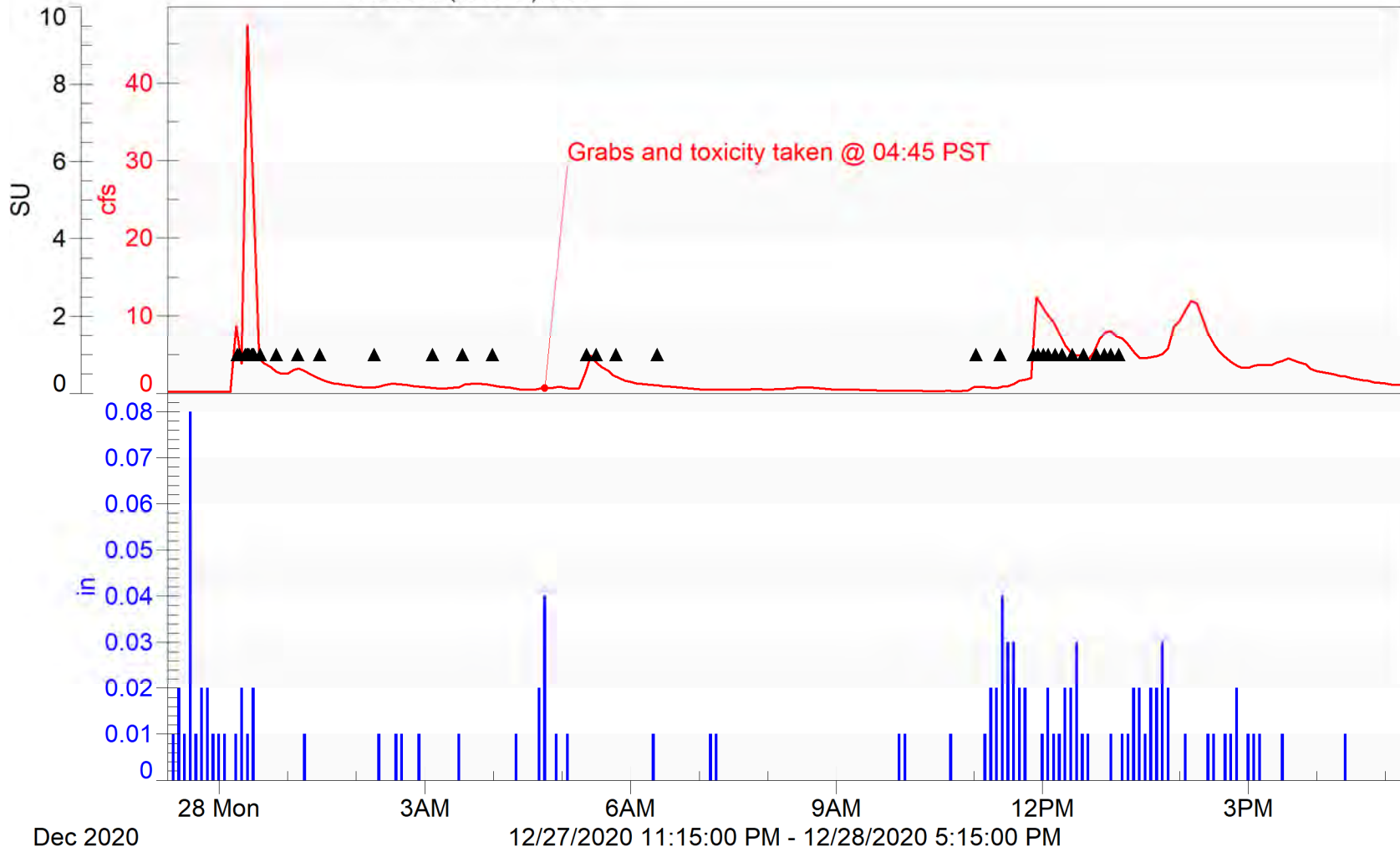


# Moorpark-1

2020/21 NPDES Event #1 (Wet)

4230 Flow Rate (168315.59 cf):0.17  
Rainfall (1.10 in):0.00

Sampler (35 SU):

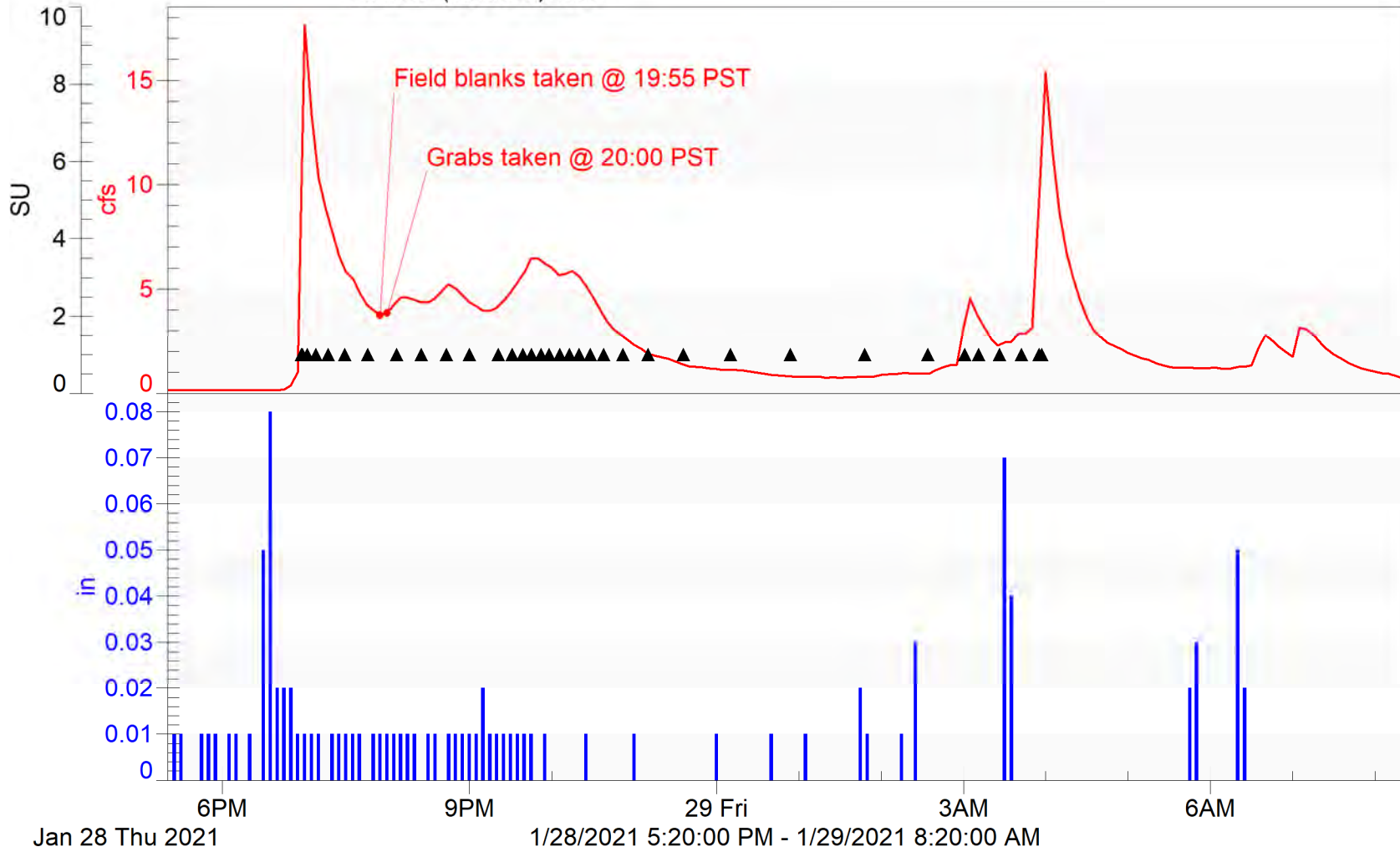


# Moorpark-1

2020/21 NPDES Event #2 (Wet)

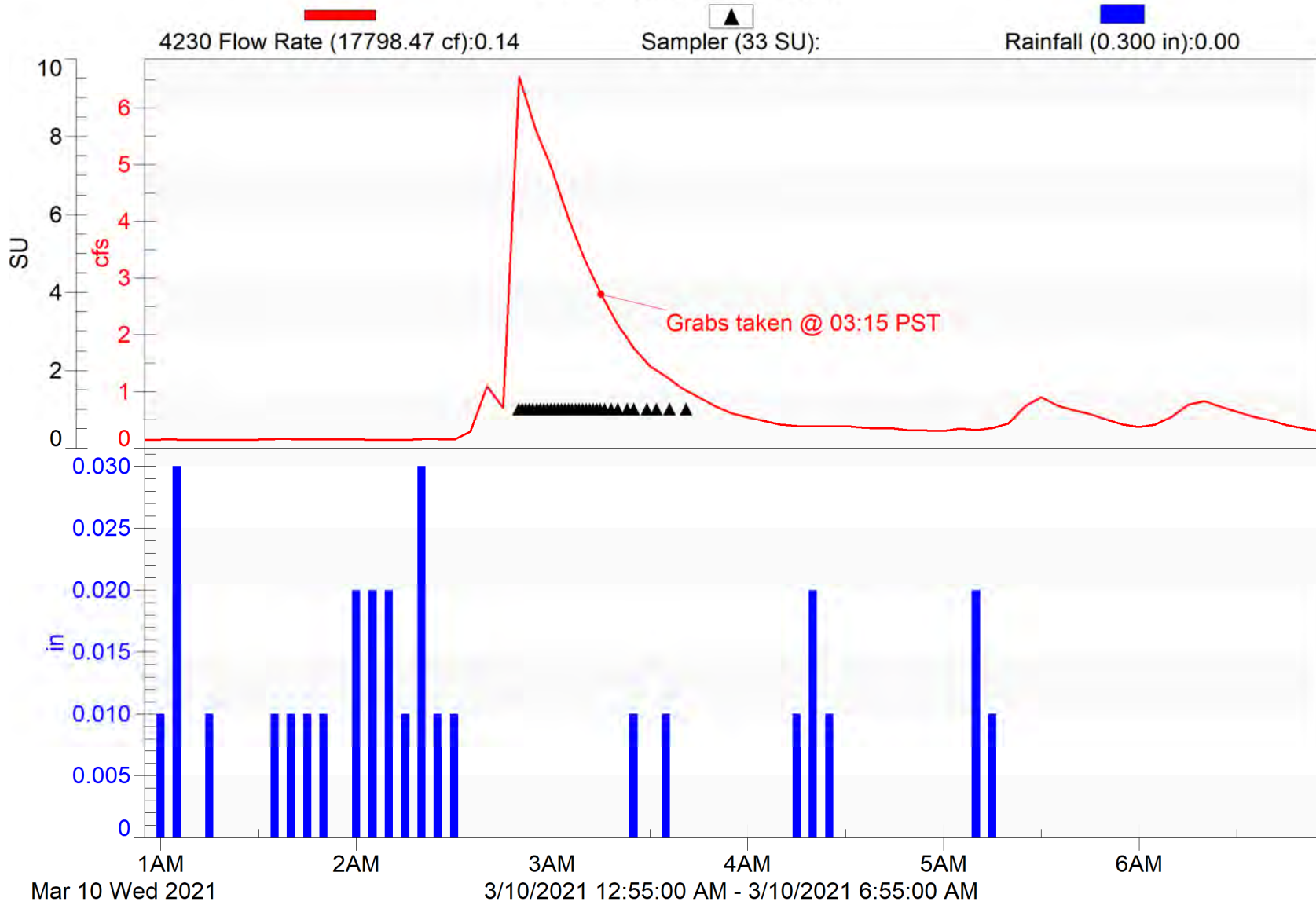
4230 Flow Rate (149102.39 cf):0.14  
Rainfall (0.950 in):0.00

Sampler (35 SU):



# Moorpark-1

2020/21 NPDES Event #3 (Wet)



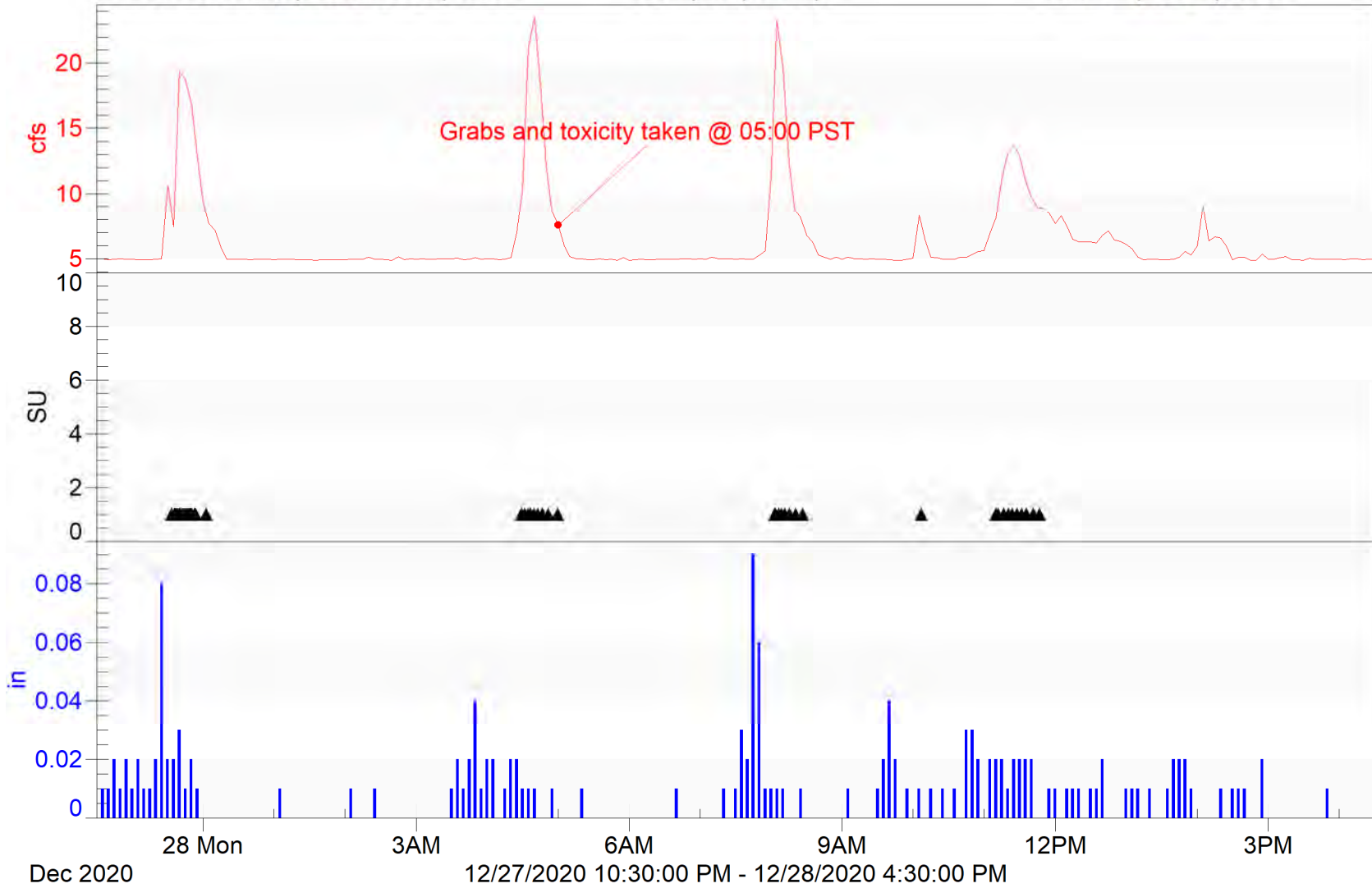
# Ojai-1

2020/21 NPDES Event #1 (Wet)

4230 Flow Rate (410406.93 cf):4.98

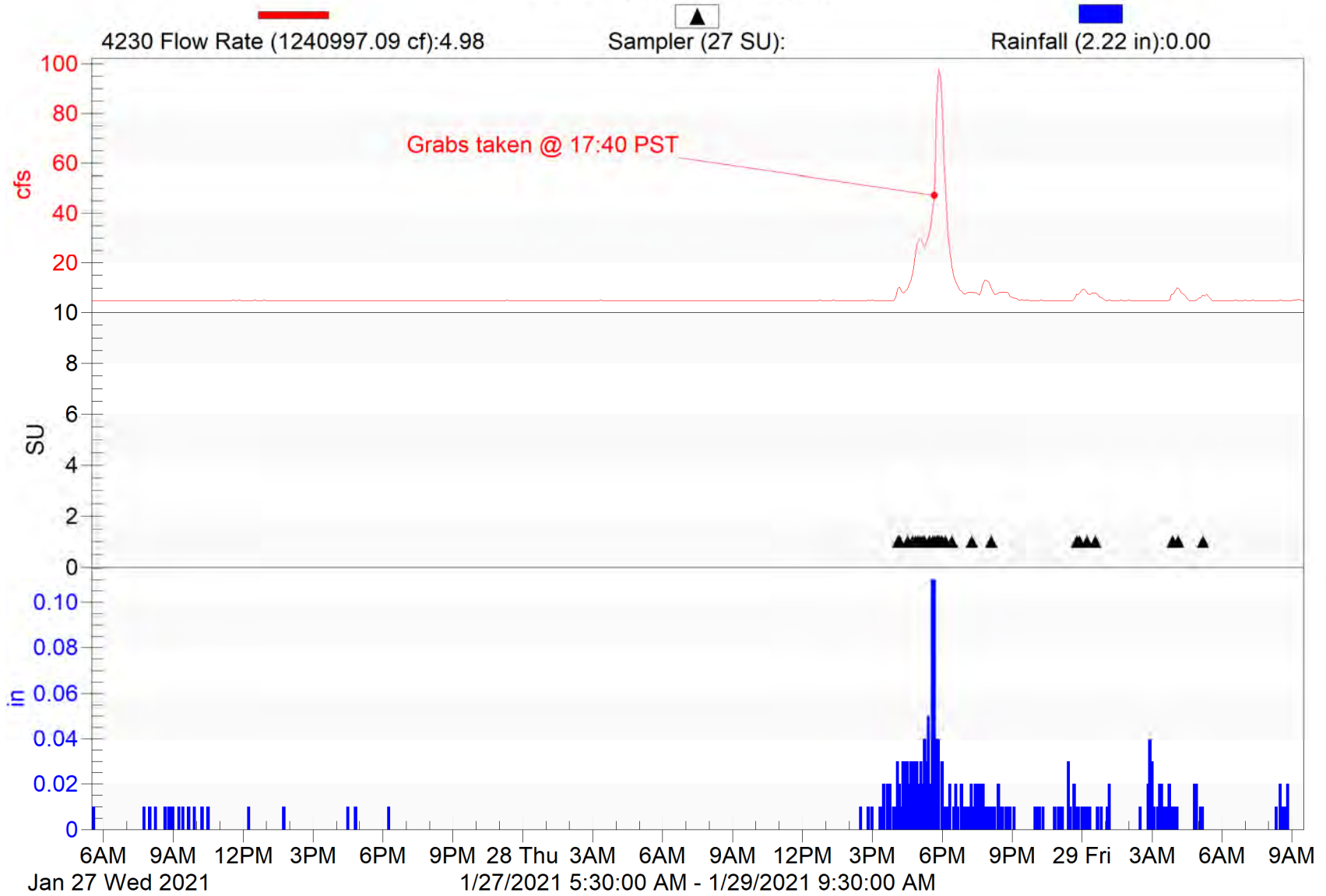
Sampler (47 SU):

Rainfall (1.55 in):0.00



# Ojai-1

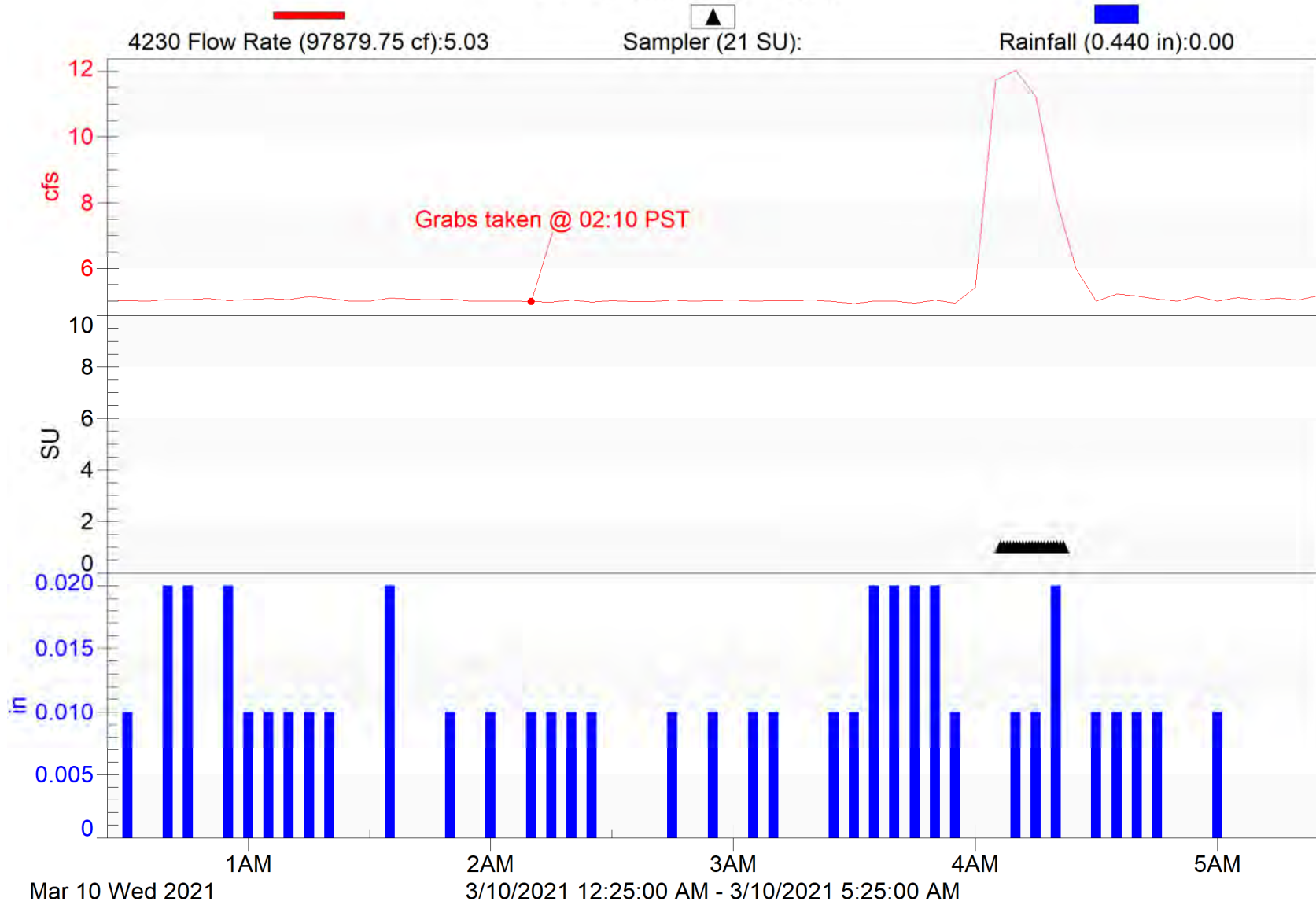
2020/21 NPDES Event #2 (Wet)





# Ojai-1

2020/21 NPDES Event #3 (Wet)



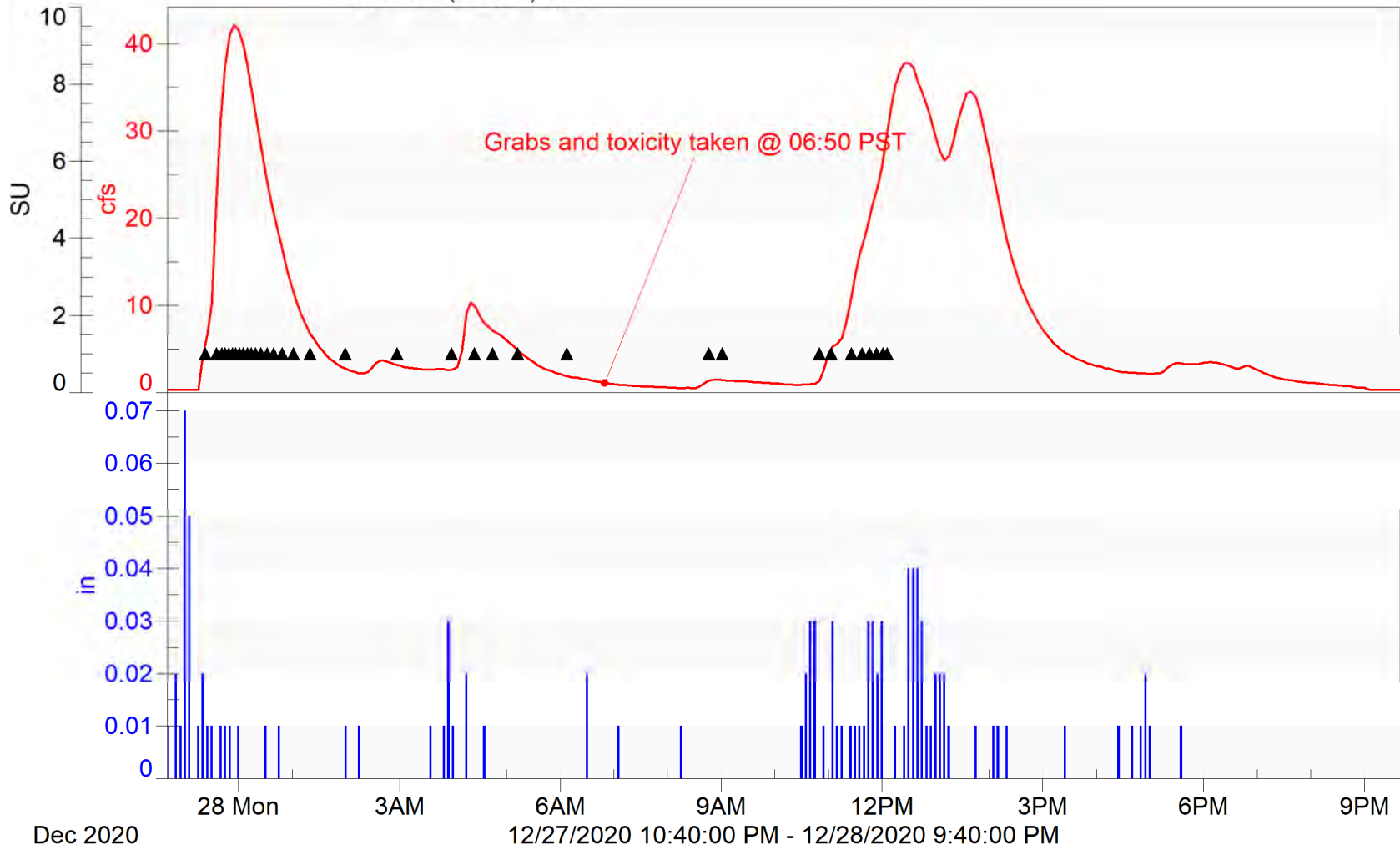
# Oxnard-1

2020/21 NPDES Event #1 (Wet)

4230 Flow Rate (652247.79 cf):0.26

Rainfall (1.10 in):0.01

Sampler (35 SU):



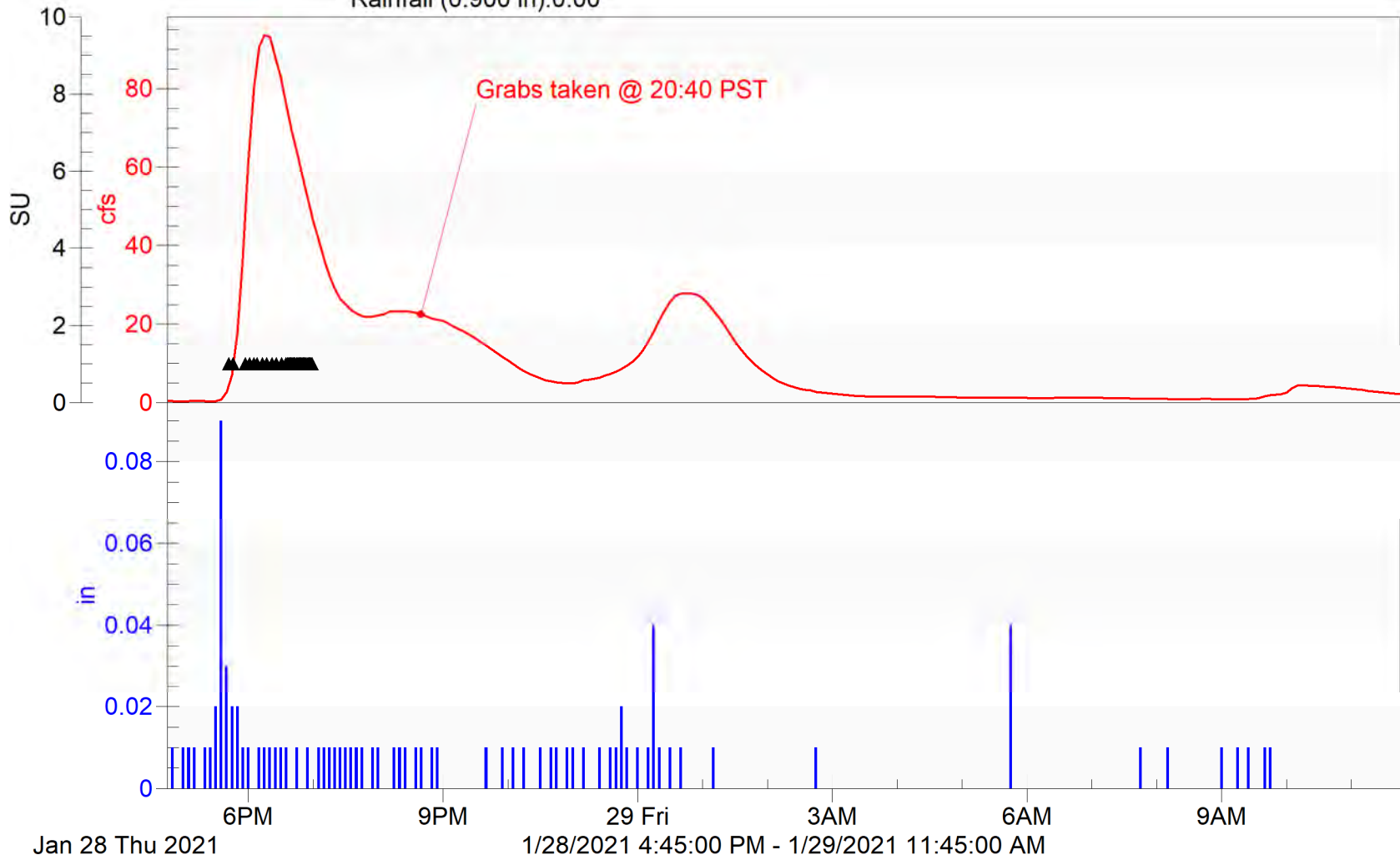
# Oxnard-1

2020/21 NPDES Event #2 (Wet)

4230 Flow Rate (796954.60 cf):0.28

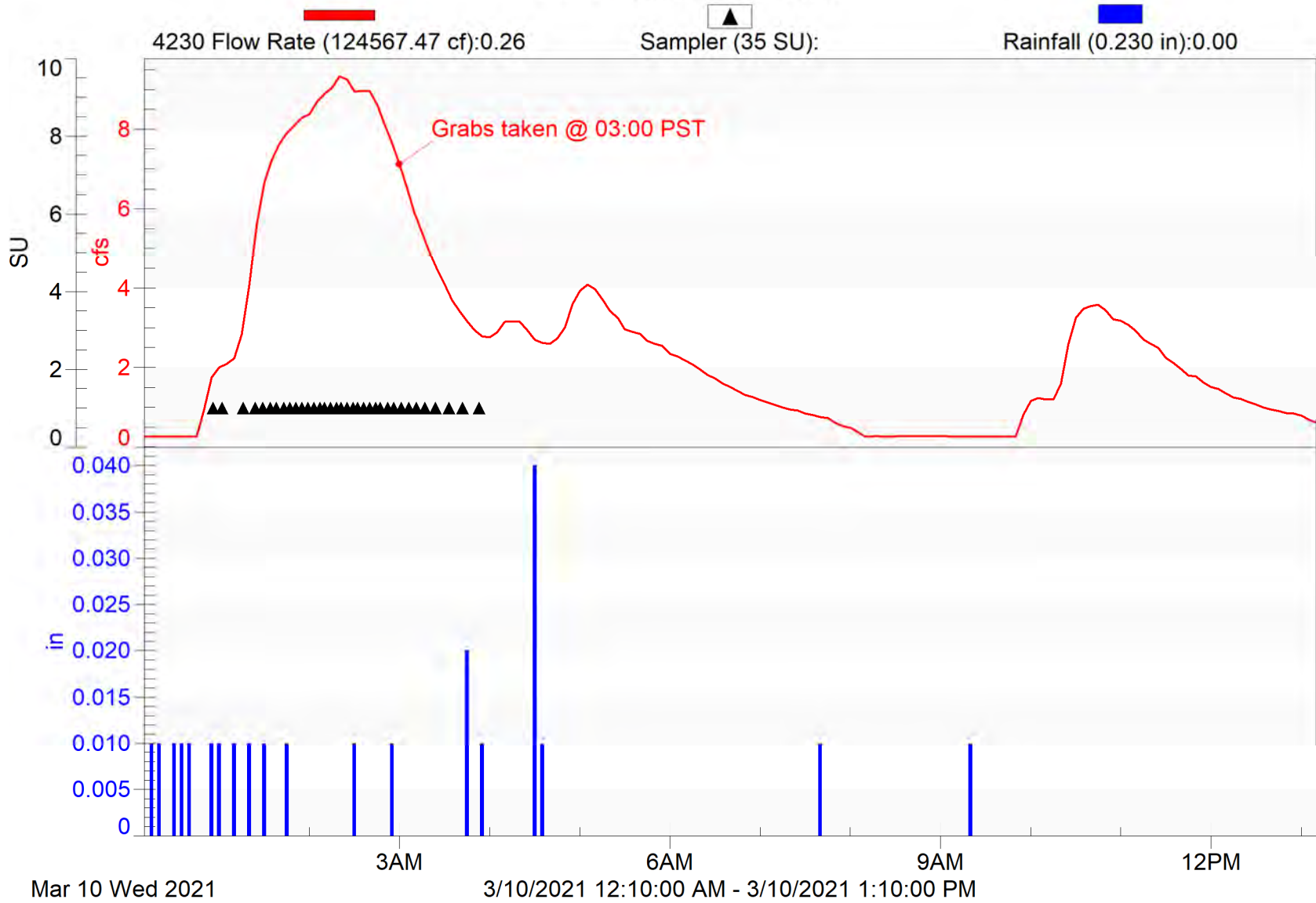
Rainfall (0.900 in):0.00

Sampler (35 SU):



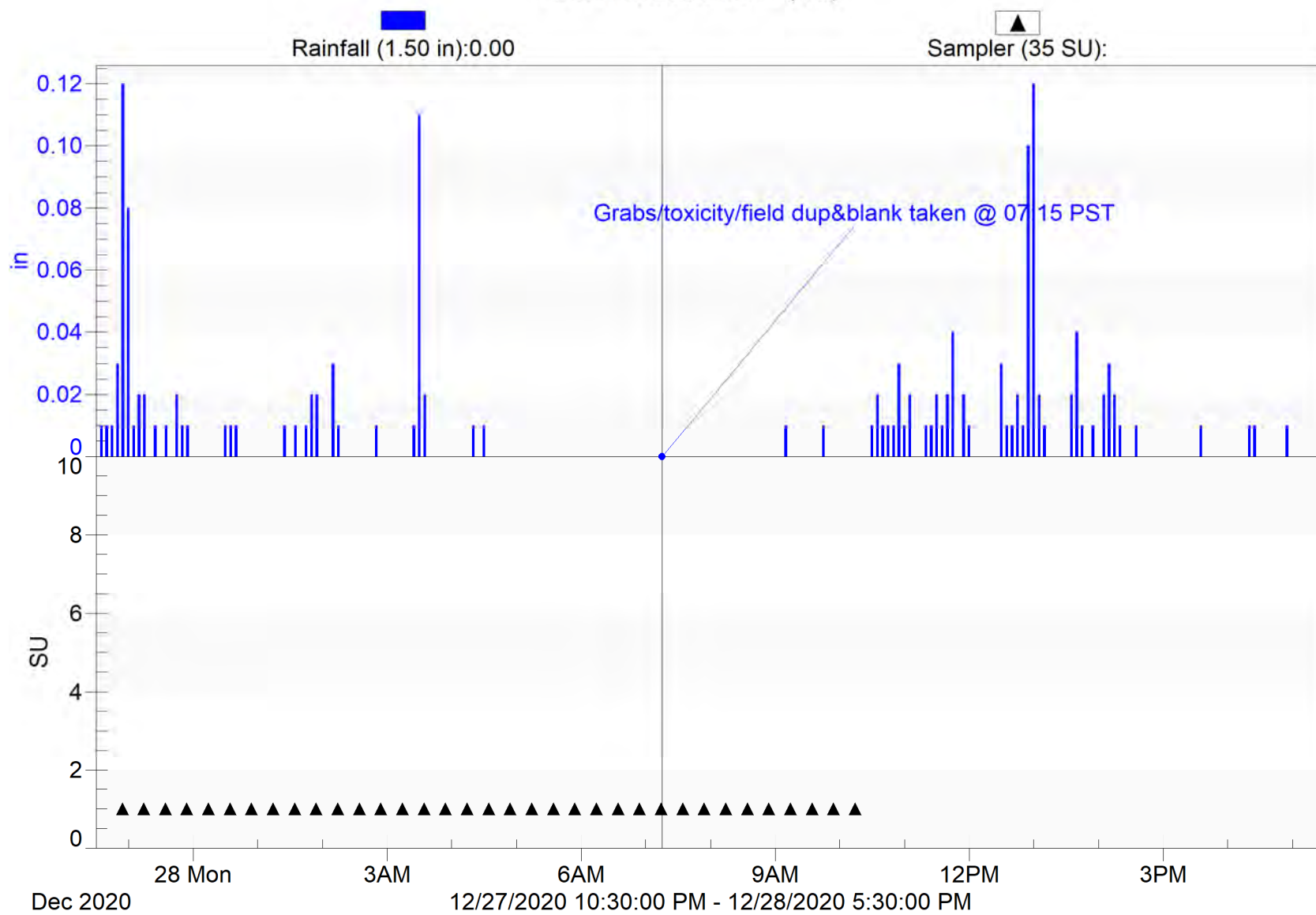
# Oxnard-1

2020/21 NPDES Event #3 (Wet)



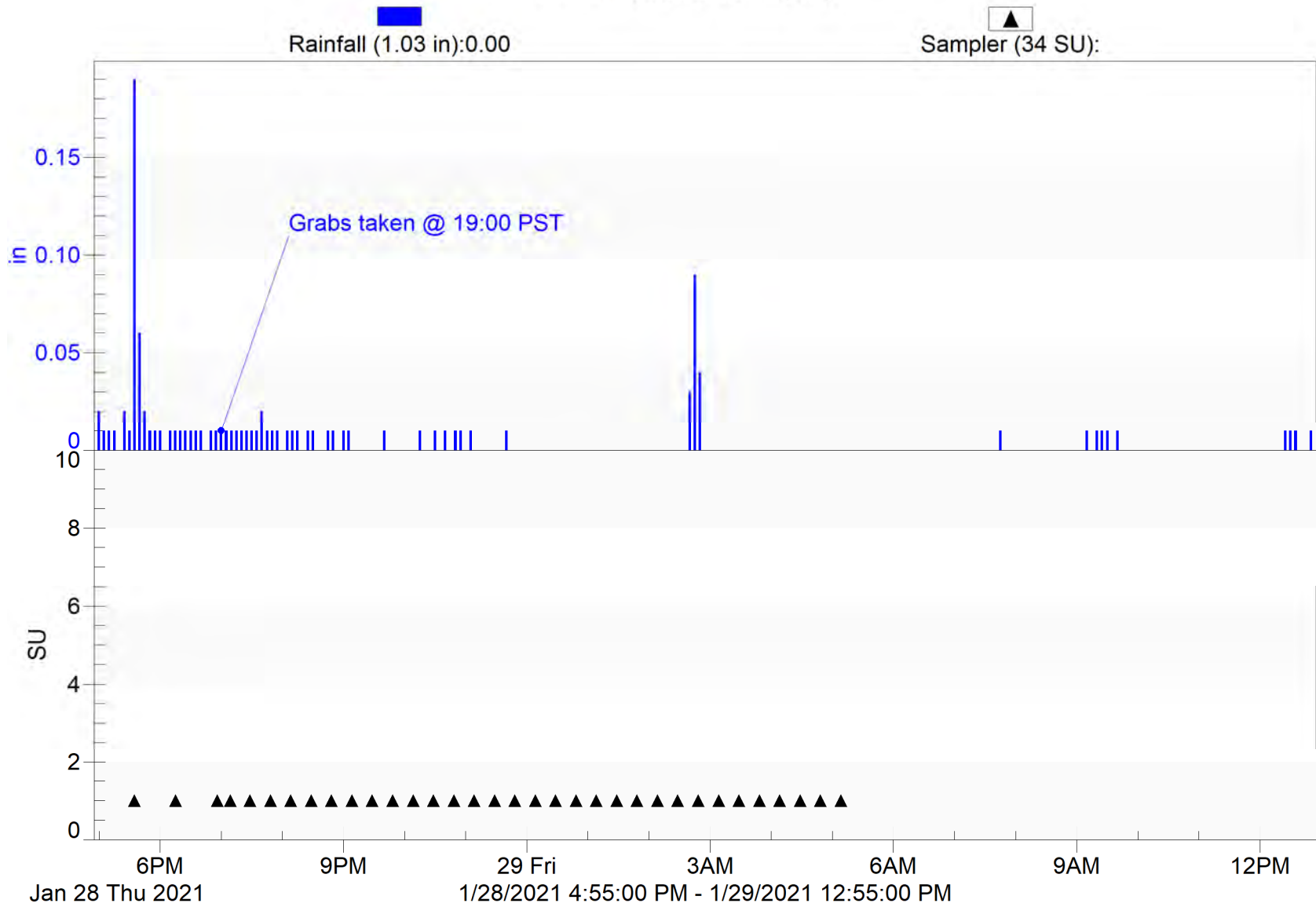
# Port Hueneme-1

2020/21 NPDES Event #1 (Wet)



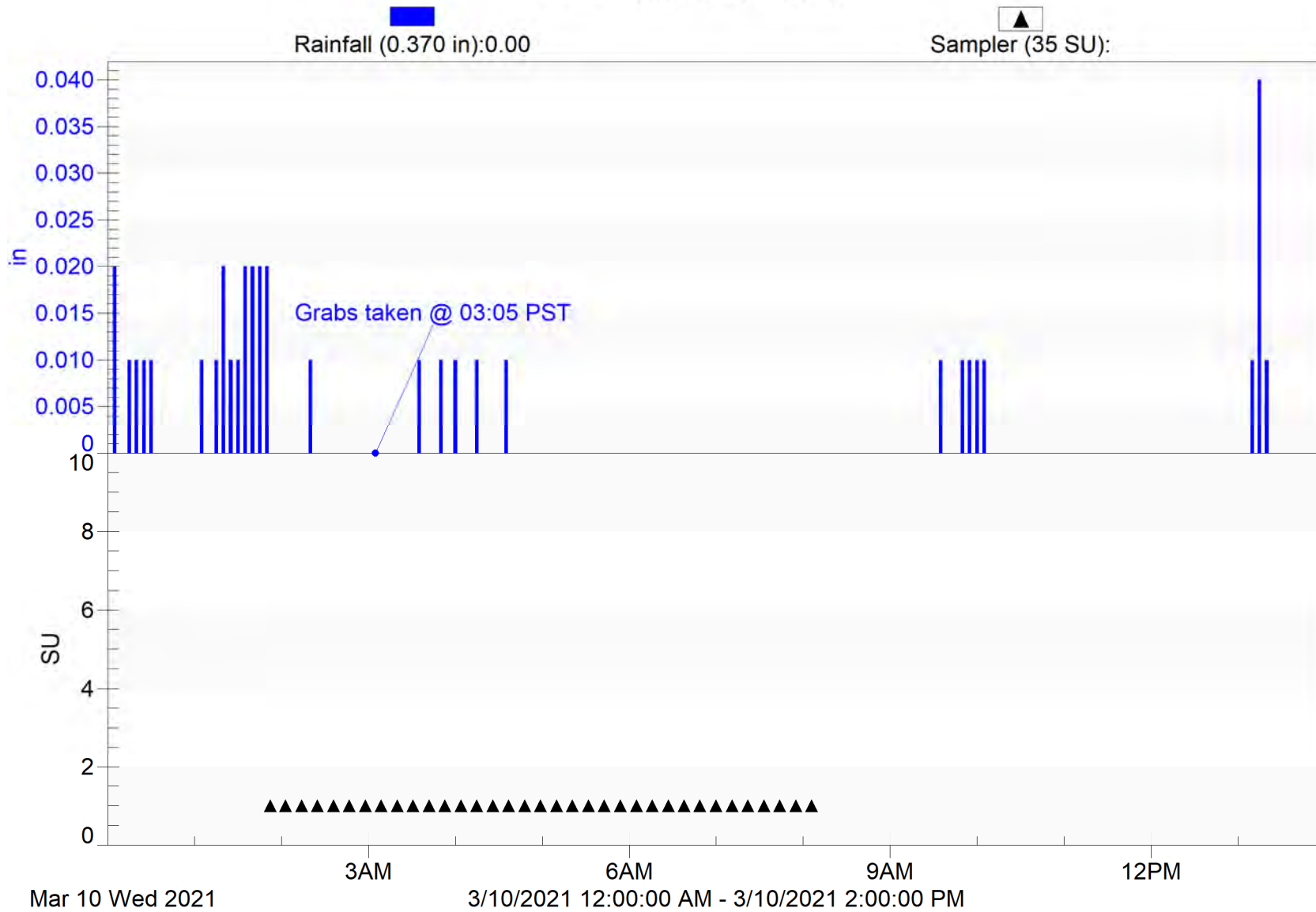
# Port Hueneme-1

2020/21 NPDES Event #2 (Wet)



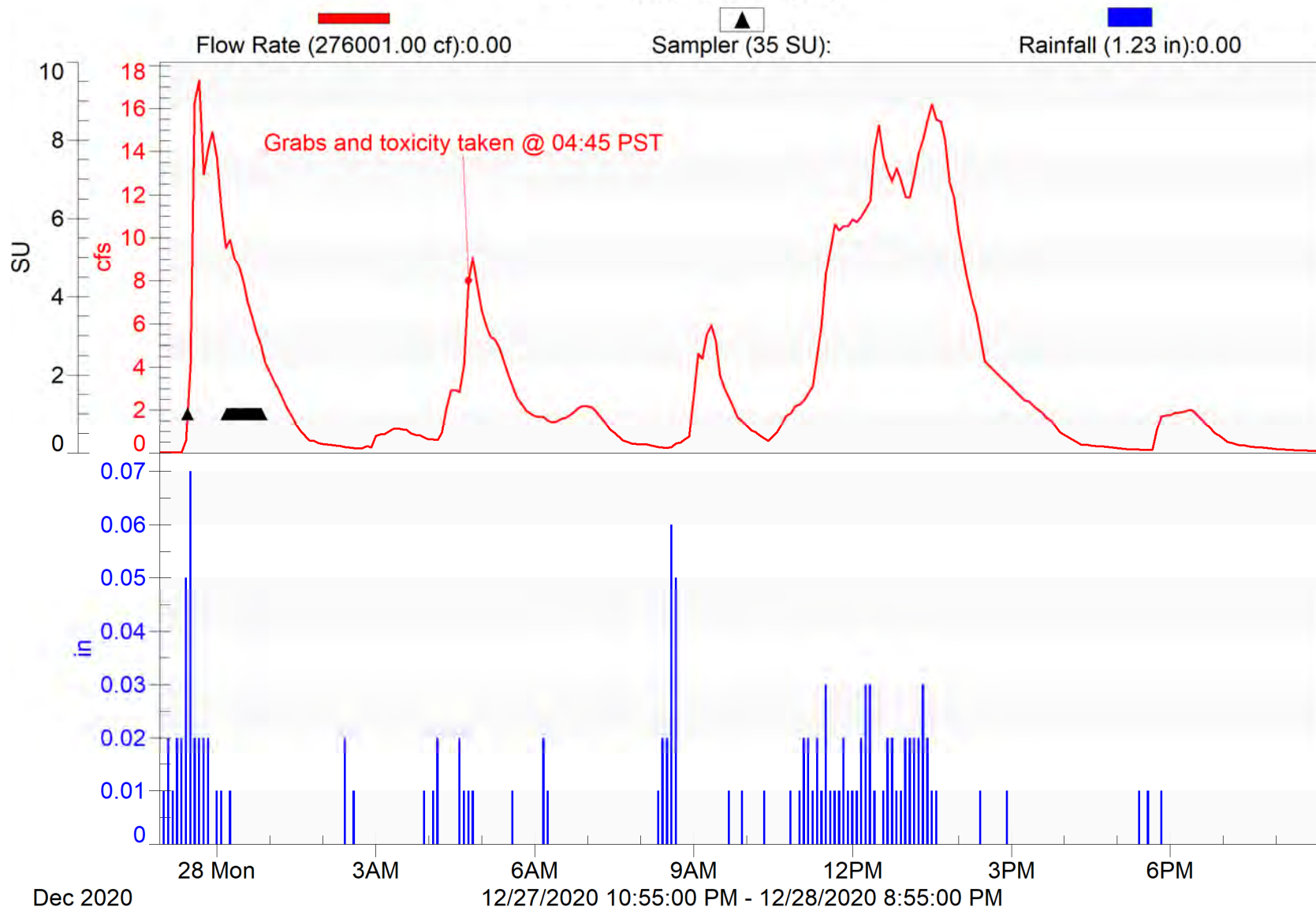
# Port Hueneme-1

2020/21 NPDES Event #3 (Wet)



# Santa Paula-1

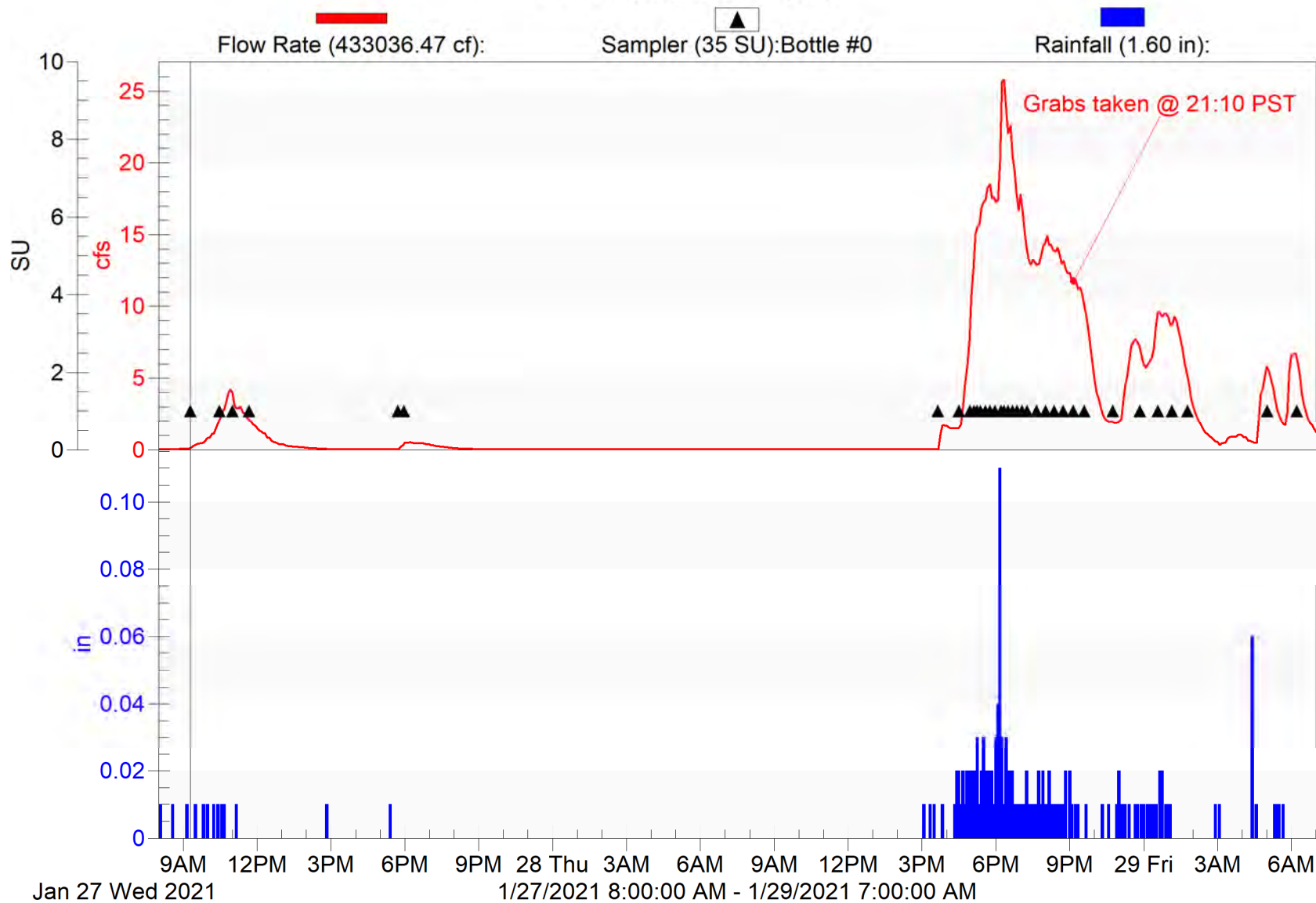
2020/21 NPDES Event #1 (Wet)





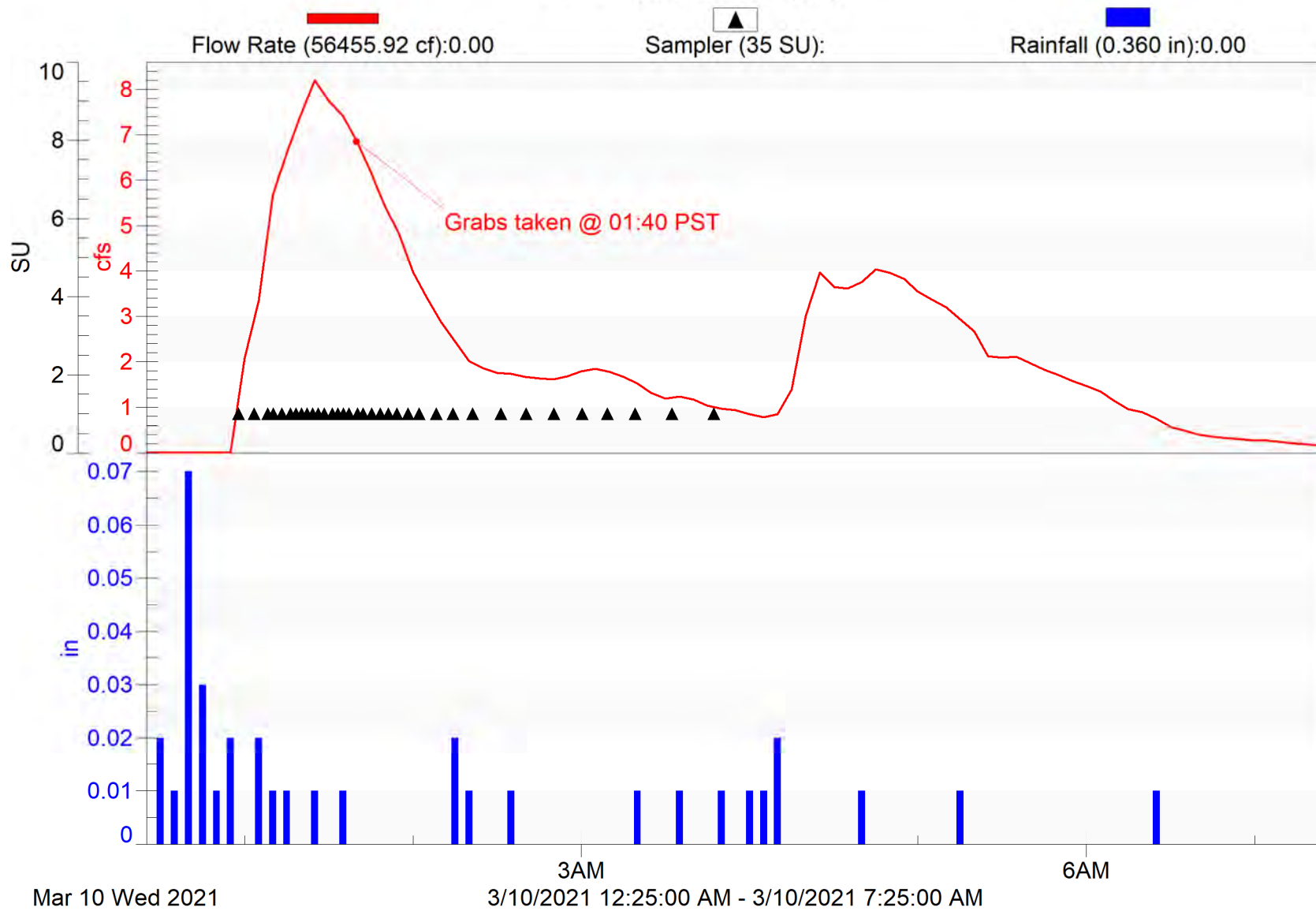
# Santa Paula-1

2020/21 NPDES Event #2 (Wet)



# Santa Paula-1

2020/21 NPDES Event #3 (Wet)



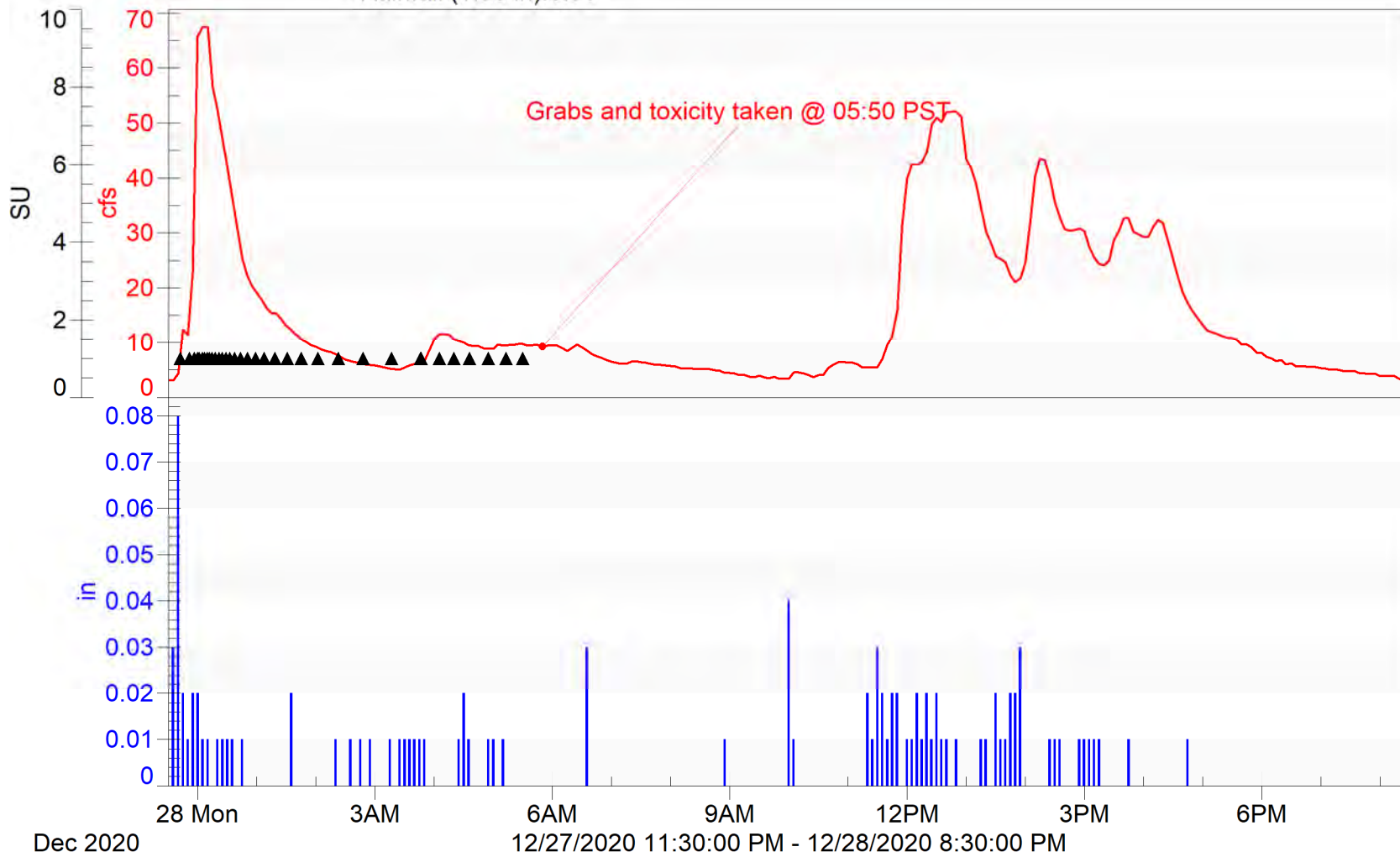
# Simi Valley-1

2020/21 NPDES Event #1 (Wet)

4230 Flow Rate (1161882.02 cf):3.05

Sampler (35 SU):

Rainfall (1.03 in):0.00



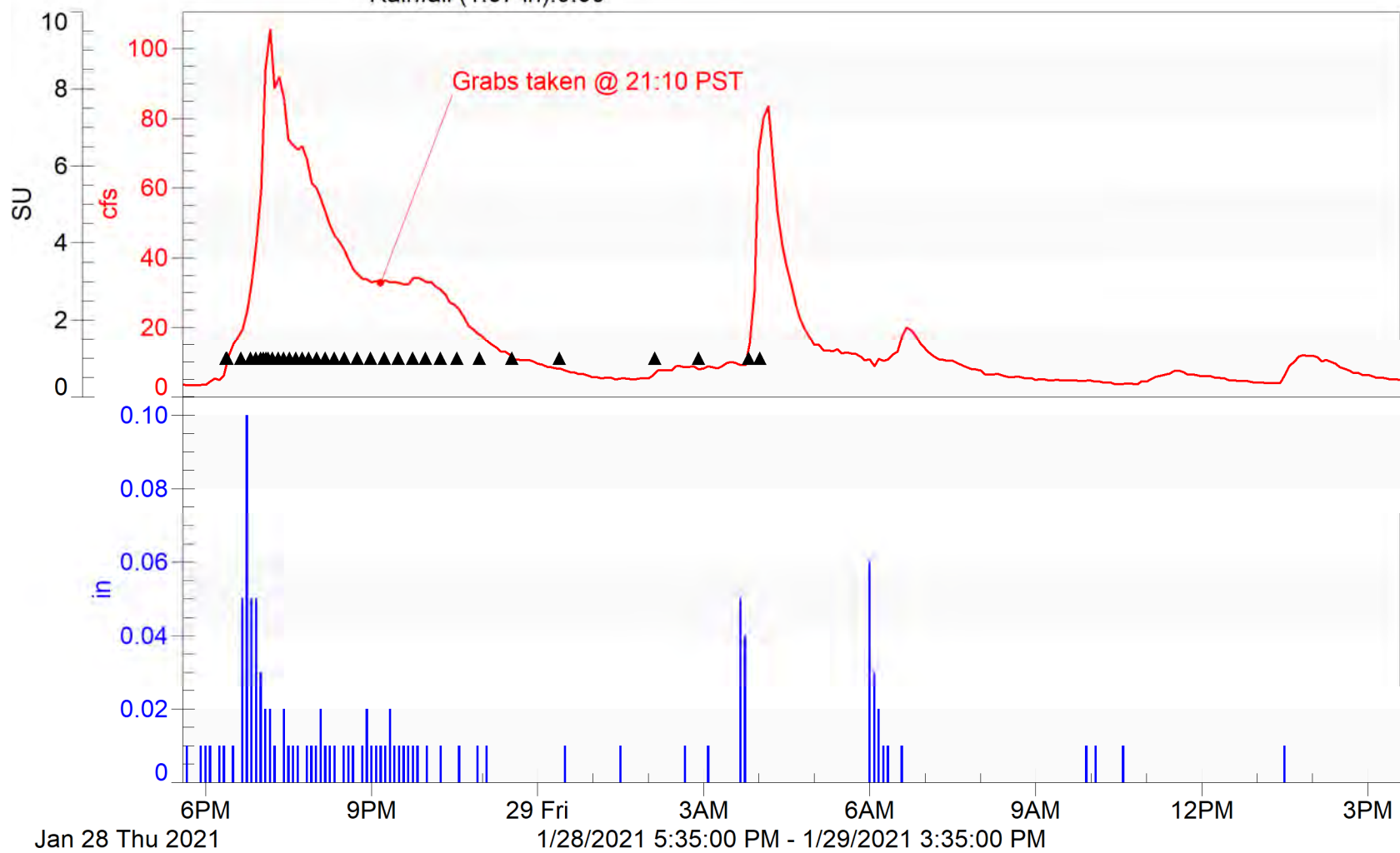
# Simi Valley-1

2020/21 NPDES Event #2 (Wet)

4230 Flow Rate (1345631.83 cf):3.53

Rainfall (1.07 in):0.00

Sampler (35 SU):

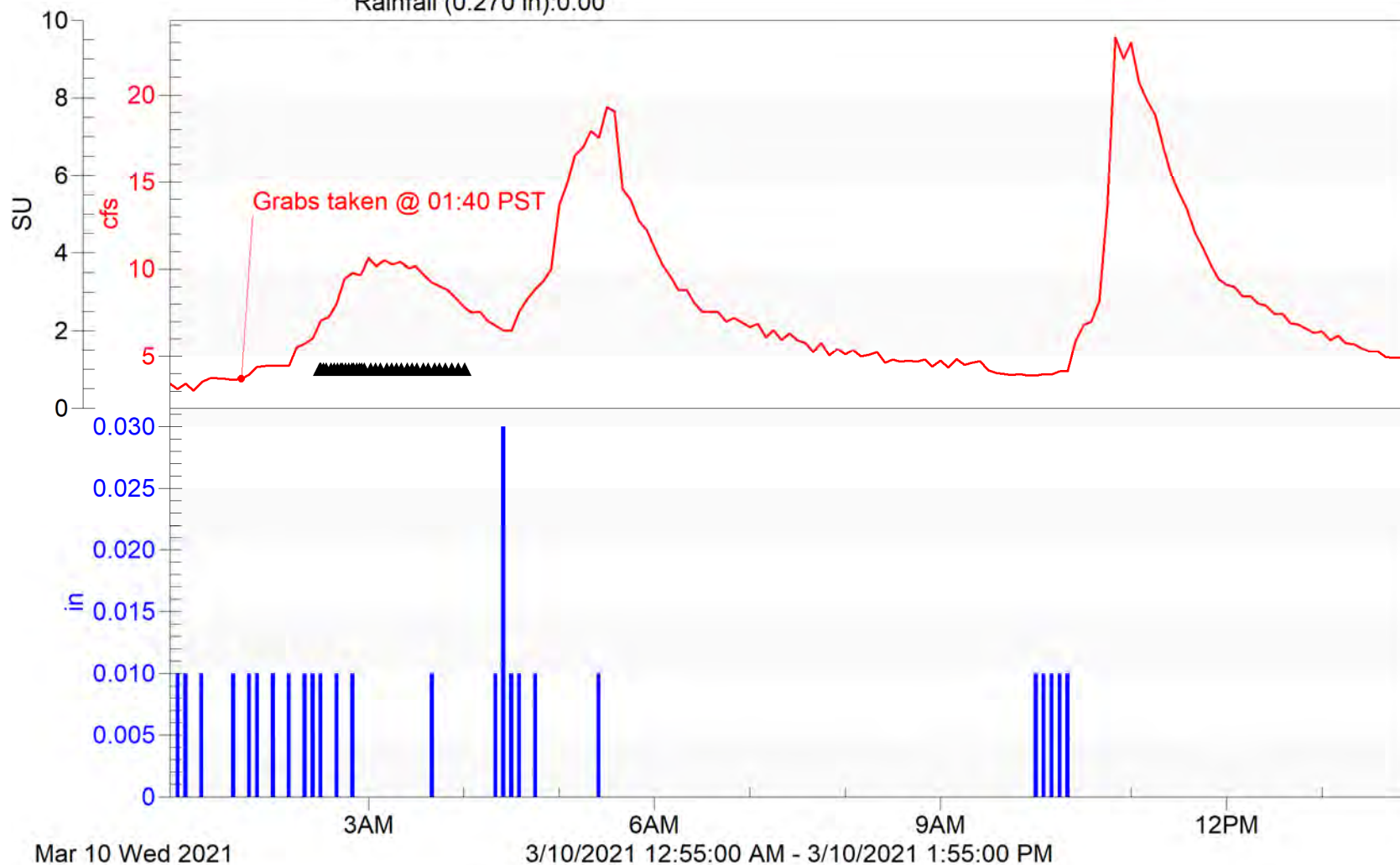


# Simi Valley-1

2020/21 NPDES Event #3 (Wet)

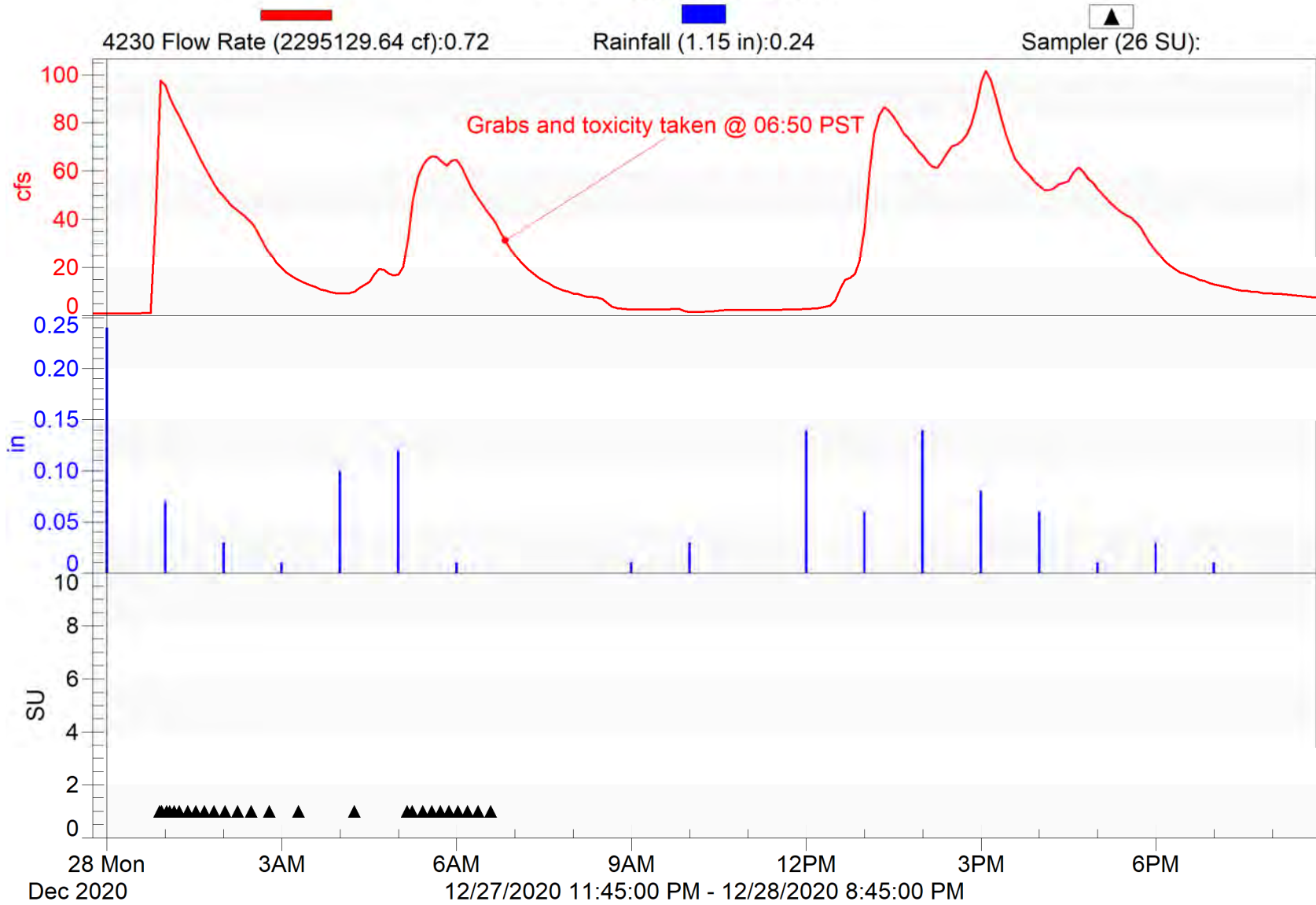
█  
 4230 Flow Rate (377913.04 cf):3.42  
█  
 Rainfall (0.270 in):0.00

▲  
 Sampler (35 SU):



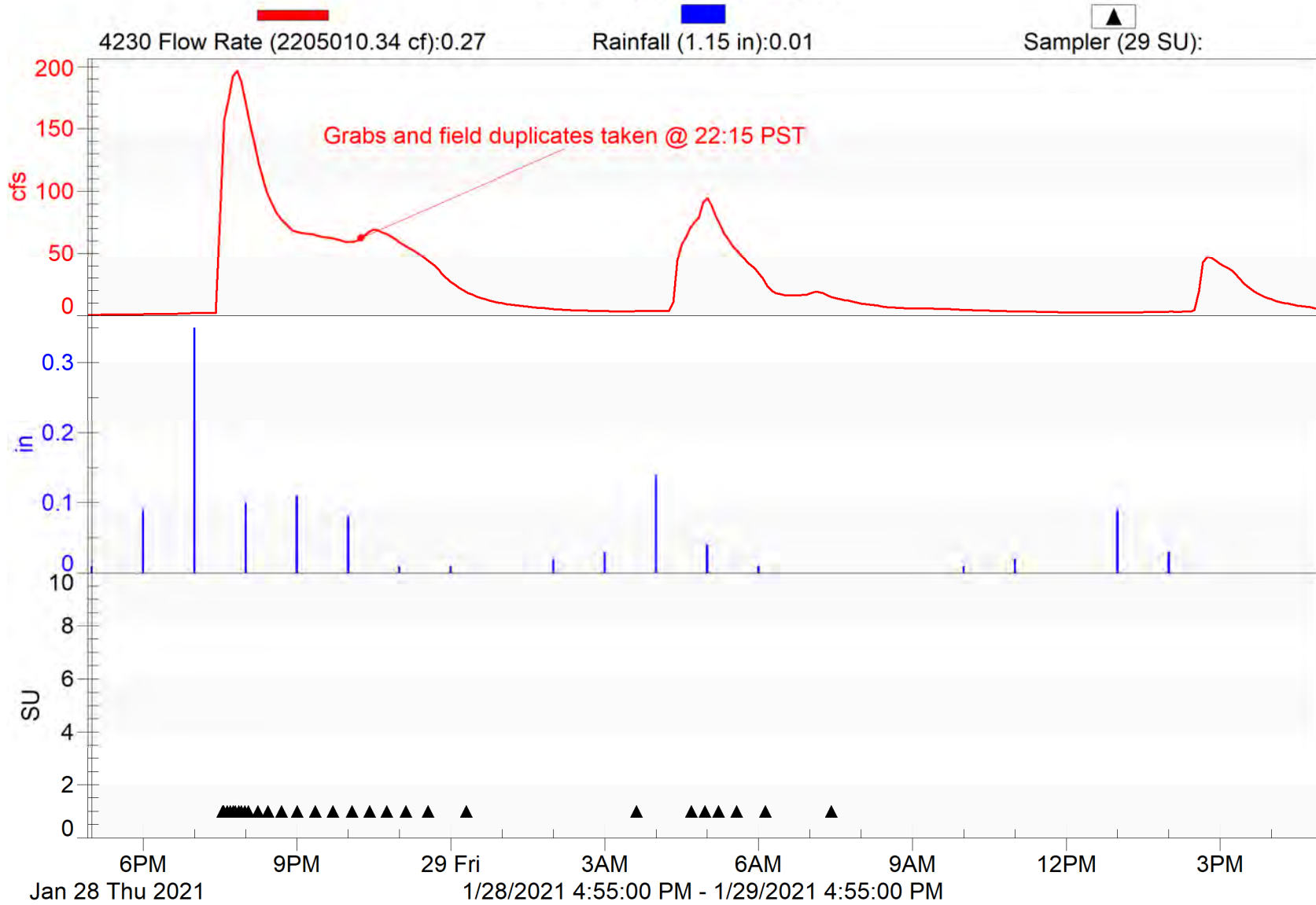
# Thousand Oaks-1

2020/21 NPDES Event #1 (Wet)



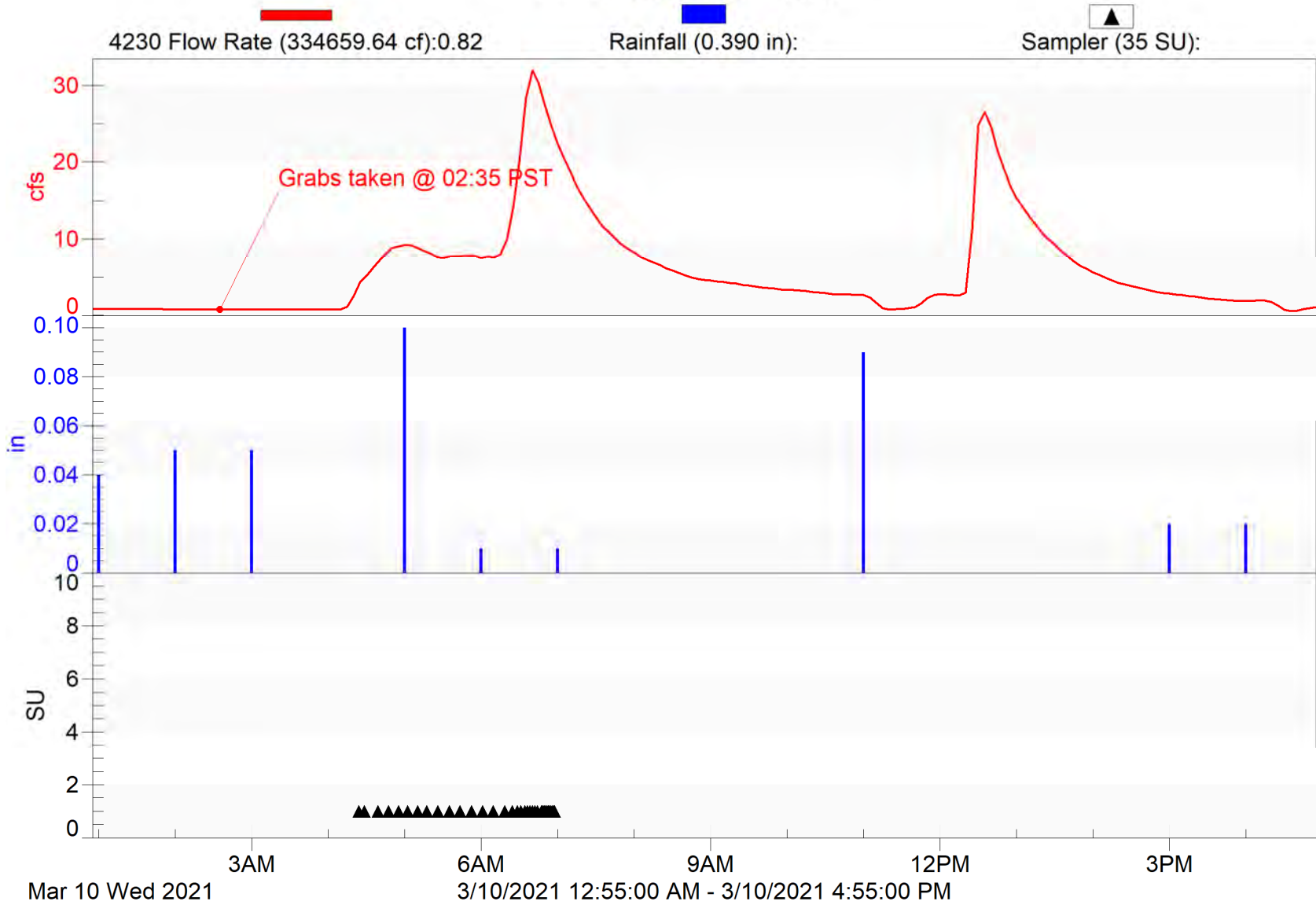
# Thousand Oaks-1

2020/21 NPDES Event #2 (Wet)



# Thousand Oaks-1

2020/21 NPDES Event #3 (Wet)





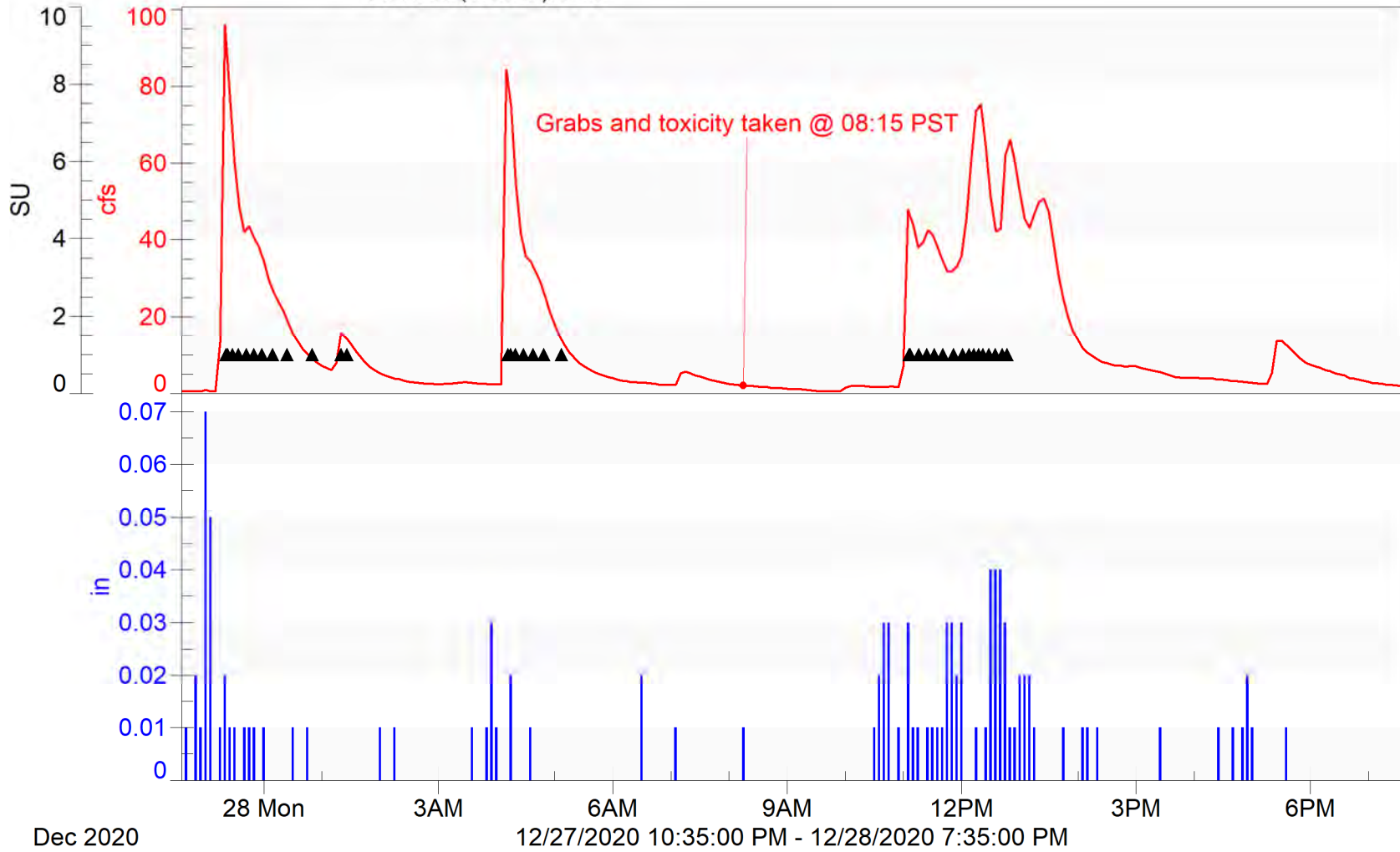
# Ventura-1

2020/21 NPDES Event #1 (Wet)

4230 Flow Rate (1053283.80 cf):0.52

Rainfall (1.10 in):0.00

Sampler (35 SU):



# Ventura-1

2020/21 NPDES Event #2 (Wet)

4230 Flow Rate (1240514.26 cf):0.54

Rainfall (0.910 in):0.00

Sampler (35 SU):





## **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.

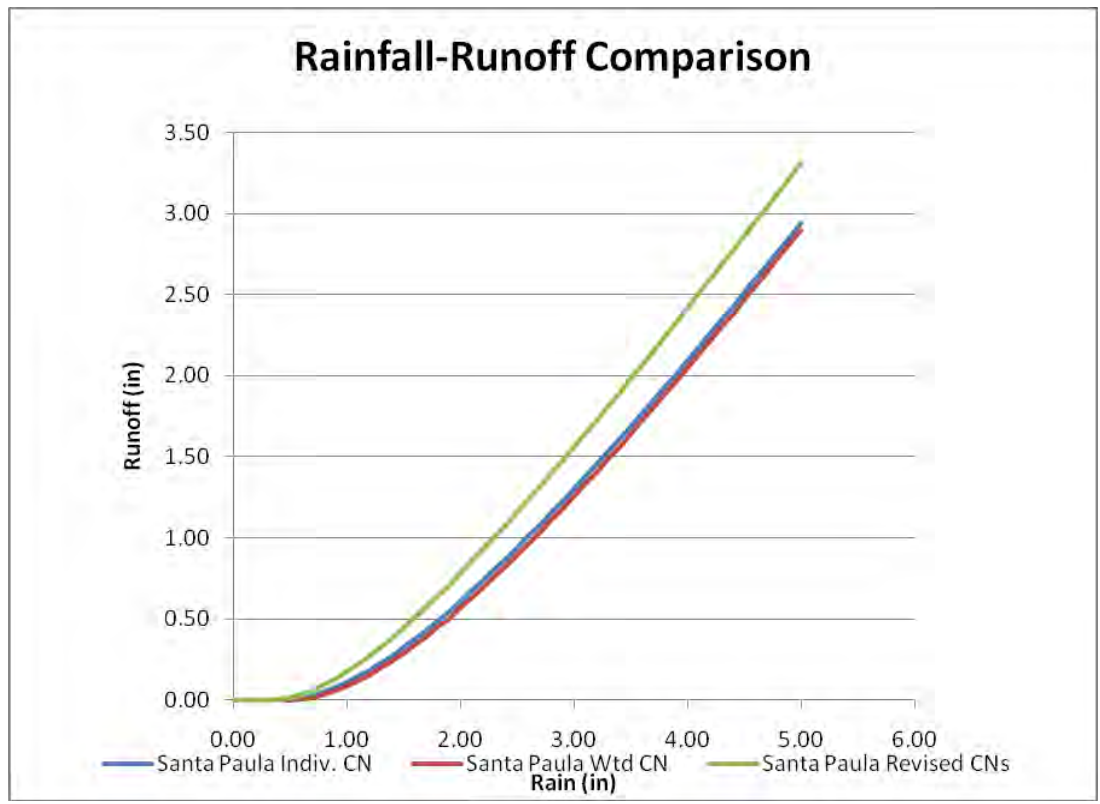
Table 3: Storm Yield Results- Weighted Average Curve Numbers with Updated CNs

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_MonitoringSitesRunoff9-09.xls	9-09 CN data
NPDES_MonitoringSitesRunoff8-10.xls	8-10 updated analysis for 11 sites total
NPDES_MonitoringSitesRunoff8-10RevCNs.xls	8-10 analysis using revised CNs
MonitoringSites9-09.mxd	ArcMap project file for analysis

# Ventura Watershed

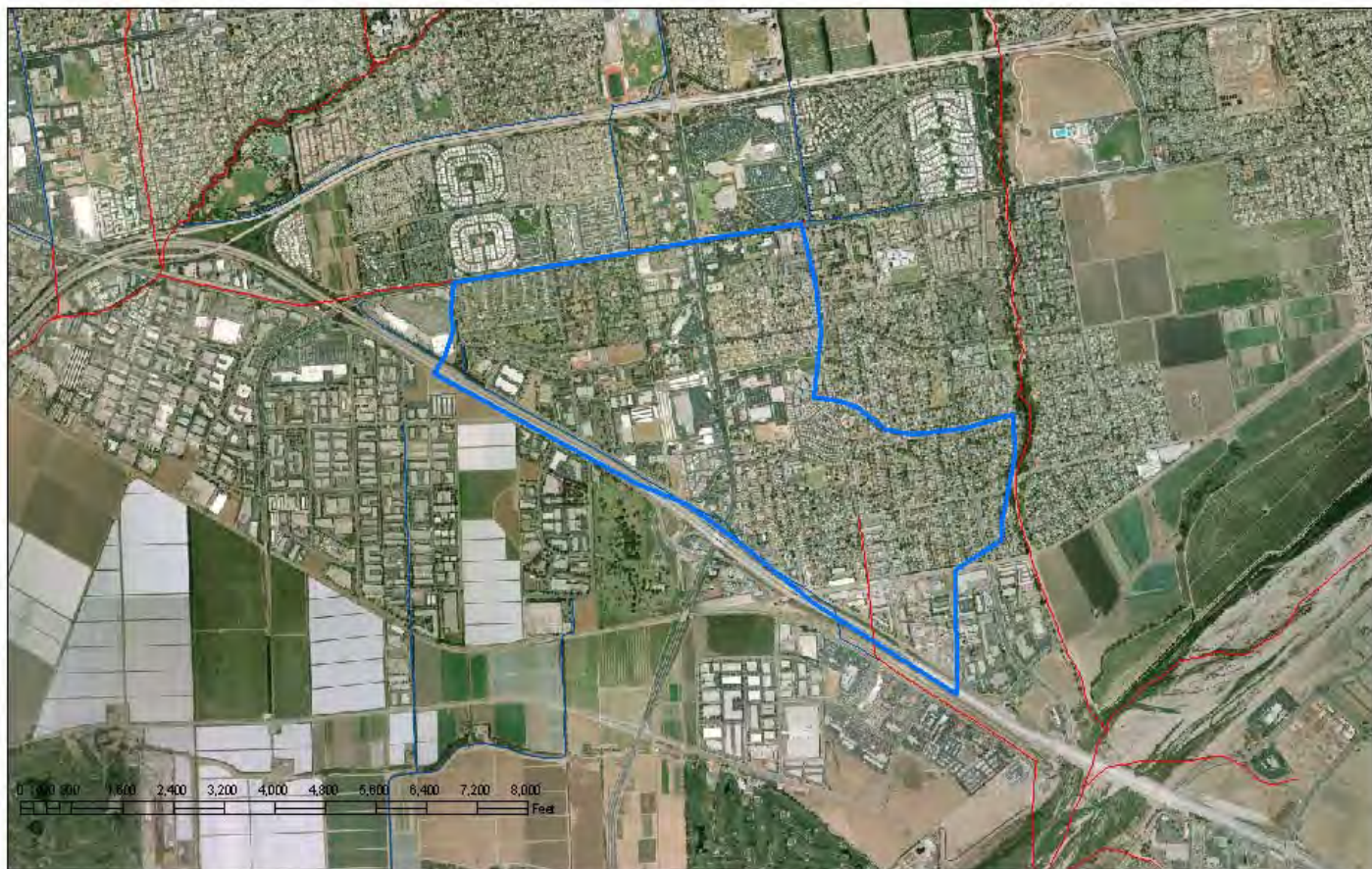


Figure 2

# Meiners Oaks Happy Valley Watershed



Figure 3

### Ojai Fox Watershed

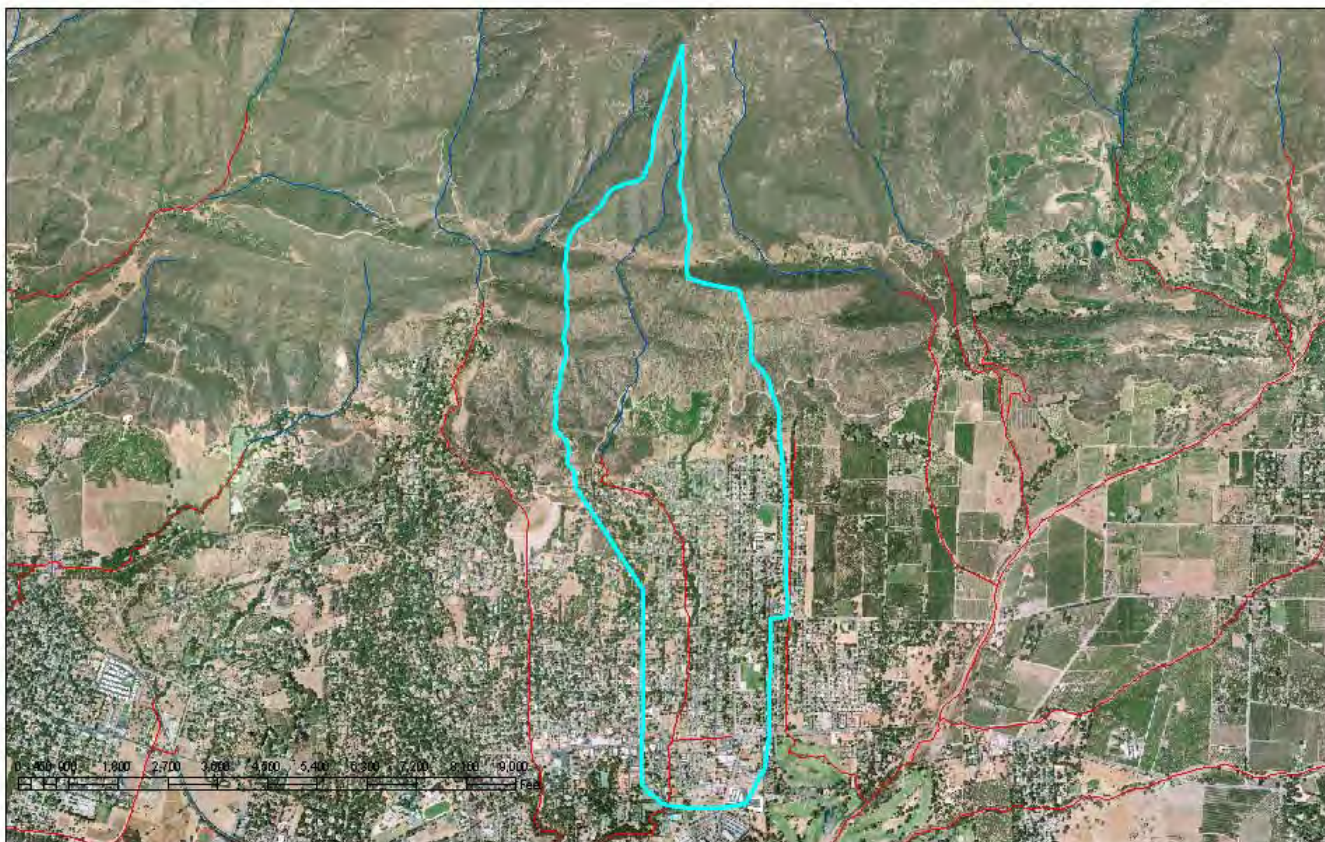


Figure 4

### Camarillo Hills Drain Watershed

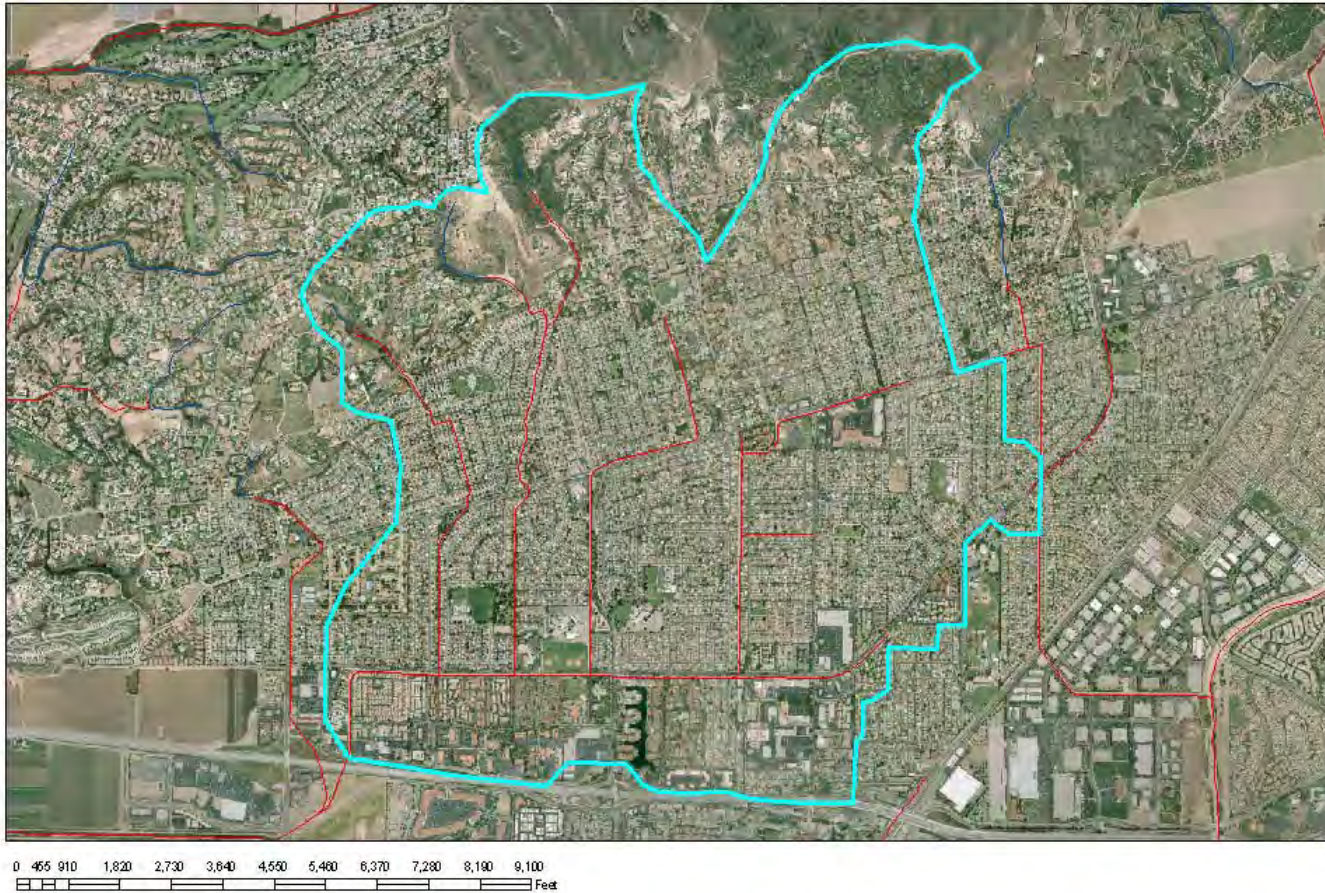


Figure 5

Simi Valley Watershed

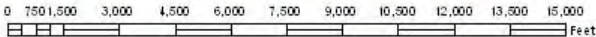
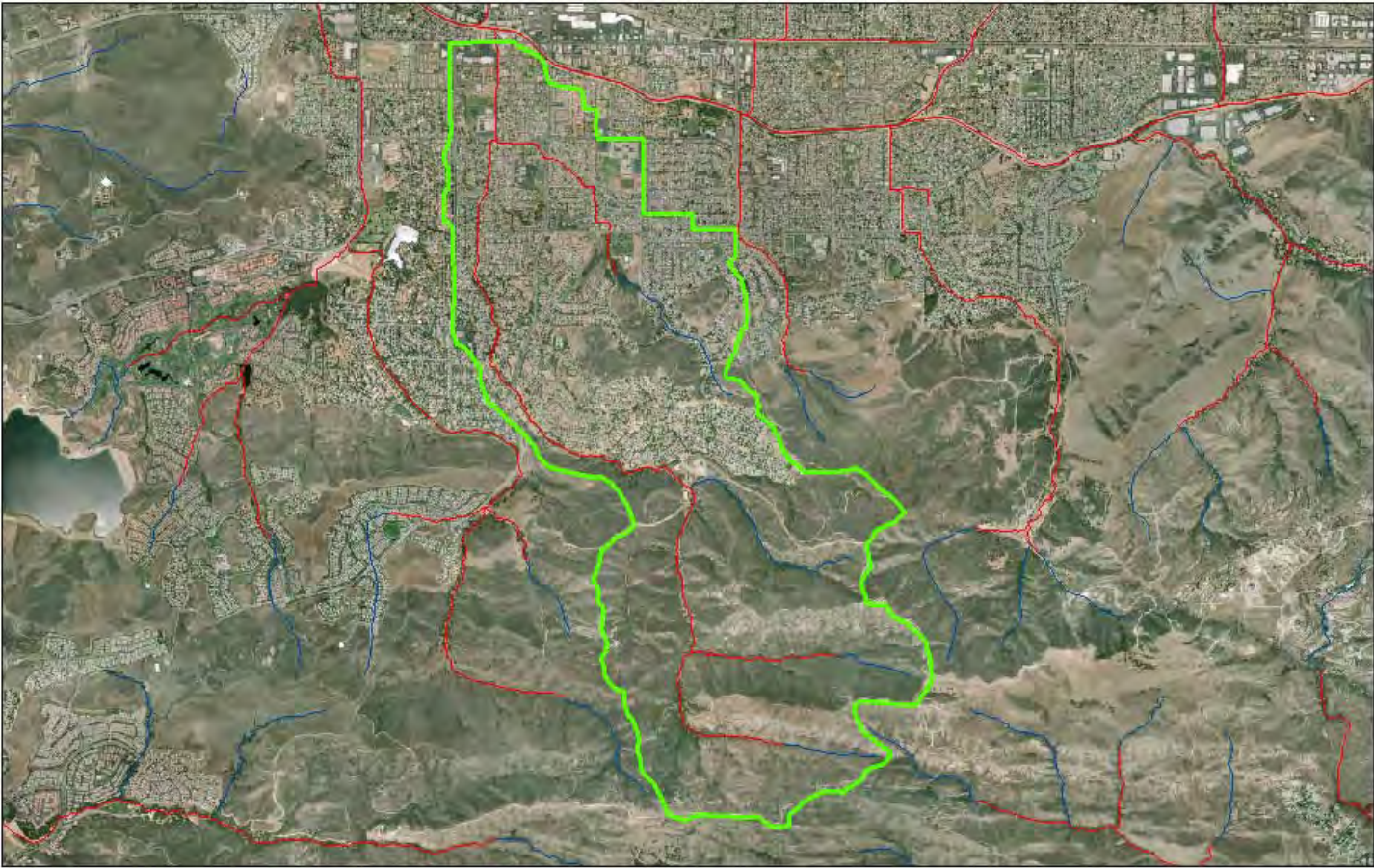


Figure 6

Oxnard Watershed



Figure 7

### Moorpark Watershed

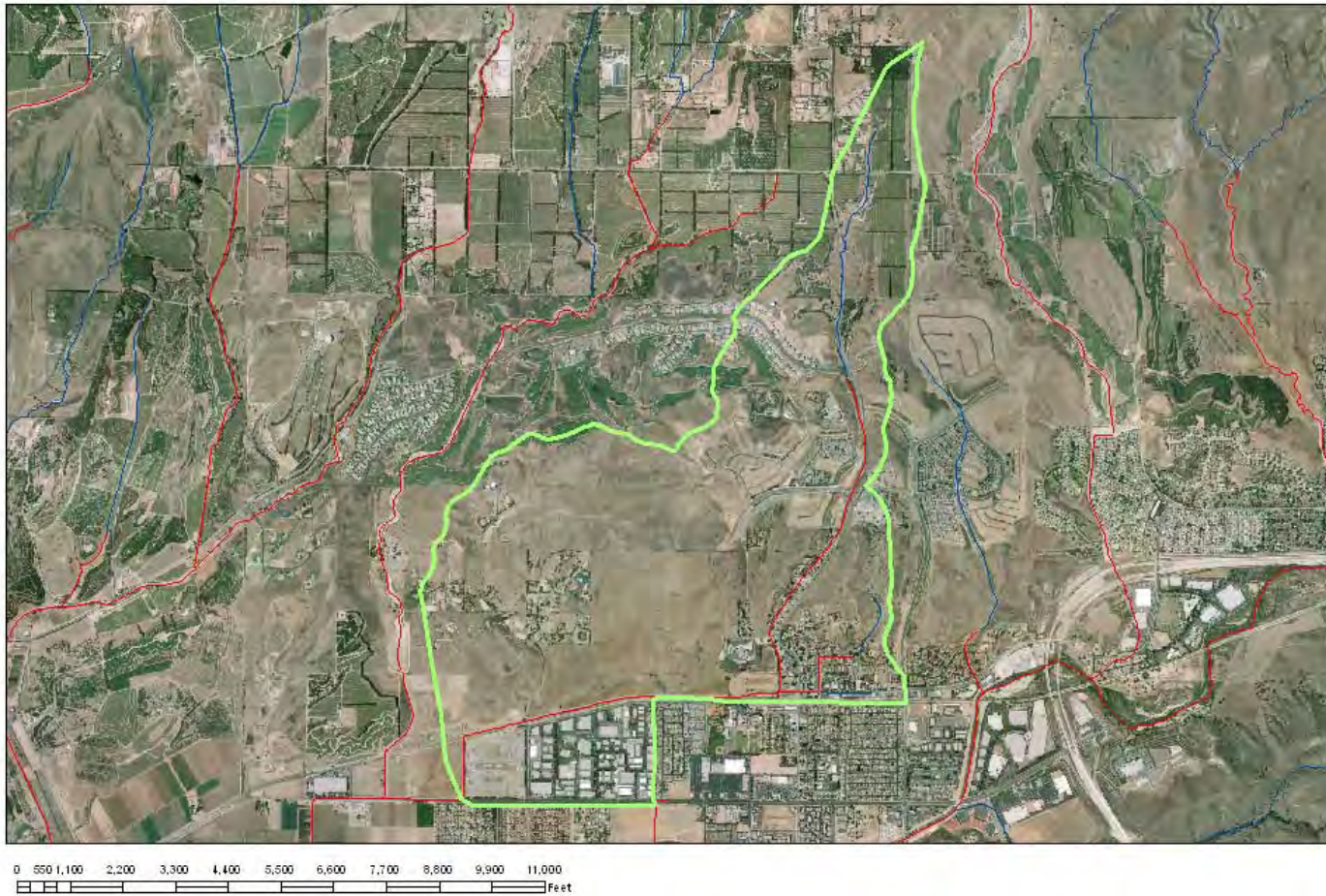


Figure 8



# Port Hueneme Watershed



Figure 9

# Fillmore Watershed



Figure 10

# Thousand Oaks Watershed

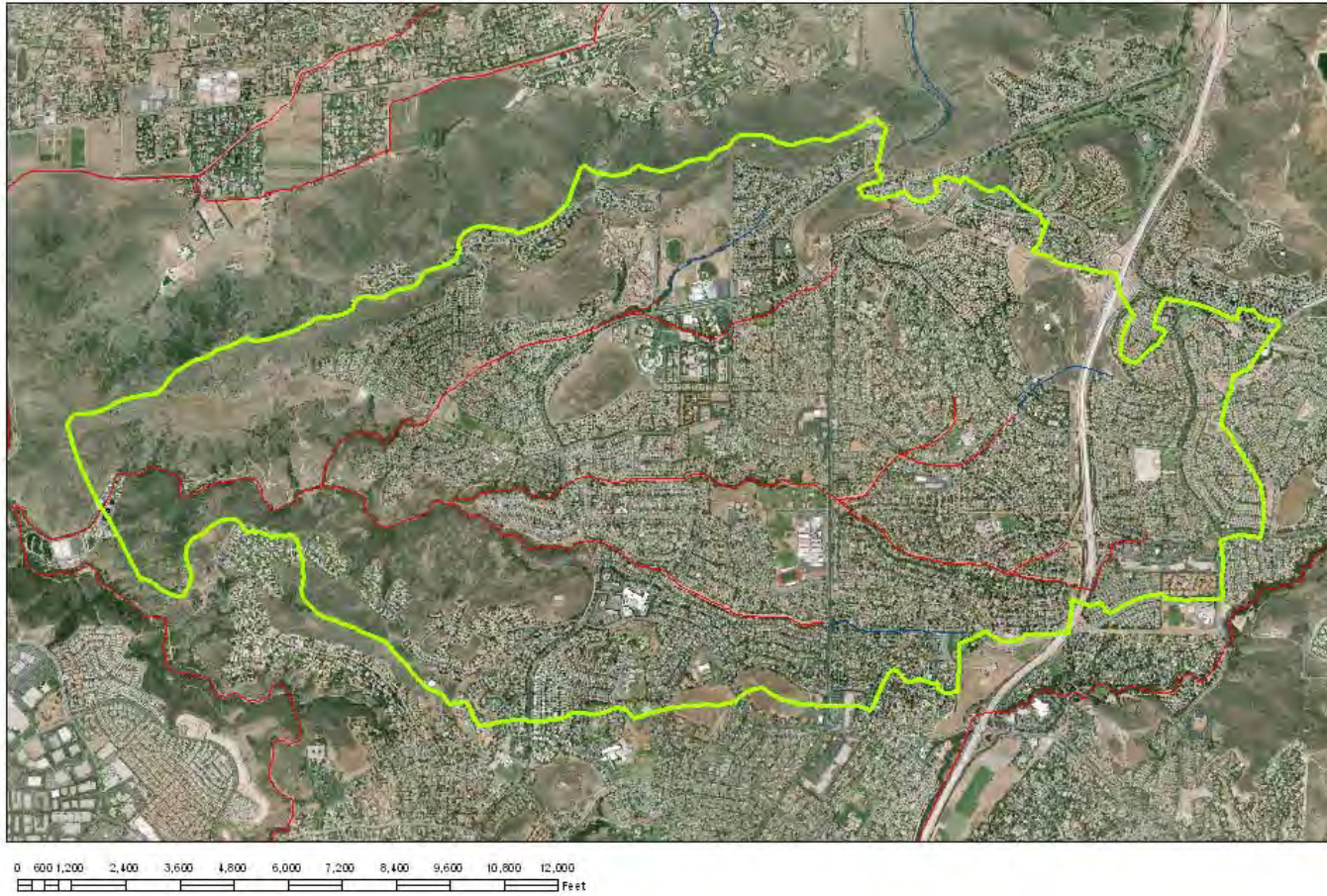


Figure 11

# 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			Notes
							Level (feet)	Flow (cfs)							(nearest half hrs)	Comp Time	Grab Time	
ME-CC	1	1	DL	12/27/2020	0932	PST	1.183	NA	1.17	Turned on	4L Distilled	12,190	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				4230 desiccant purple. Tox buckets and grab bottles placed at site. Homogenized then emptied half of comp bottle at 23 samples to collect more of remaining storm. Fridge off and propped open. 6712 off.
ME-CC	1	2	PD,MD	12/28/2020	0558	PST	2.286	NA	2	2			Sample 22 after 1 pulse	18L		0610	0610	
ME-CC	1	3	JM,JG	12/28/2020	1135	PST	3.475	NA	NR	4	2L Distilled	493,896	Program done	18L		1137		
ME-SCR	1	1	WBC	12/27/2020	0930	PST	7.703	NA	NA	4	4L Distilled	38,794	Time: 20 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Lowered swing arm. Cleaned rain gauge. Tox buckets and grab bottles placed at site.
ME-SCR	1	2	DL,EL	12/28/2020	0742	PST	7.793	NA	NA	3			NR	14L		0750	0750	
ME-SCR	1	3	LS,DL	12/28/2020	1256	PST	7.813	NA	NA	-2	Flushed	NR	Program done	Full		1258		Raised swing arm. Turned outside light and 6712 off.
ME-VR2	1	1	LS	12/27/2020	0925	PST	5.28	NA		2	4L Distilled	38,041	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Desiccant blue-ish purple. Tox buckets and grab bottles placed at site.
ME-VR2	1	2	LS,AEA	12/28/2020	0652	PST	5.326	NA		4			Sample 25 after 1 pulse	12L		0700	0700	
ME-VR2	1	3	LS,DL	12/28/2020	1042	PST	5.324	NA		5	2L Distilled	407,720	Program done	Full		1045		Turned 6712 off. Took photo of high water mark.
MO-CAM	1	1	DL	12/27/2020	0850	PST	0.035	10	<toe	0	4L Distilled	20,373	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Changed 6712 PDT back to PST (10:01 to 09:01). Tox buckets and grab bottles placed at site. Cleared debris near intake/bubbler. Tree down in channel ~100 ms upstream. 4230 desiccant pink
MO-CAM	1	2	PD,MD	12/28/2020	0445	PST	0.111	18	<0.1	0			Sample 14 after 1 pulse	6L		0500	0500	
MO-CAM	1	3	DT,JK	12/28/2020	1301	PST	NR	NR	NR	4	2L Distilled	NR	Program done	16L		1301		Fridge off and propped open.
MO-FIL	1	1	PD	12/27/2020	1052	PST	0.169	NA	NR	Turned on	4L Distilled	24,369	Time: 20 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Desiccant orange. Tox buckets and grab bottles placed at site.
MO-FIL	1	2	DL,EL	12/28/2020	0530	PST	0.425	NA	NR	0			Sample 19 in 17 minutes. Errors have occurred	10L		0545	0545	
MO-FIL	1	3	PD,MD	12/28/2020	1234	PST	0.865	NA	NR	0	2L Distilled	175,257	Program done. Errors have occurred.	17L		1236		Fridge off and propped open. 6712 off.
MO-HUE	1	1	DL	12/27/2020	1017	PST	NA	NA	NA	2	4L Distilled	25,791	Time: 20 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Field blank and field duplicate bottles placed onsite. Tox buckets and grab bottles placed at site.
MO-HUE	1	2	PD,MD	12/28/2020	0705	PST	NA	NA	NA	2			Sample 26 in 4 minutes	13L		0715	0715	
MO-HUE	1	3	PD,MD	12/28/2020	1121	PST	NA	NA	NA	0	2L Distilled	179,327	Program done	18L		1122		
MO-MEI	1	1	WBC	12/26/2020	1145	PST	NR	NR	NR	Turned on	4L Distilled	24,709	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Replaced 4230 desiccant. Tox buckets and grab bottles placed at site.
MO-MEI	1	2	LS,AEA	12/28/2020	0600	PST	0.078	1	0	-6			Program disabled. Errors have occurred	~1/3 full		0600	0600	
MO-MEI	1	3	LS,DL	12/28/2020	1116	PST	0.162	5	0.1	2	2L Distilled	102,202	Program done. Errors have occurred.	13L		1120		Fridge off and propped open. 6712 off.
MO-MPK	1	1	AEA	12/27/2020	0919	PST	0.074	0.2	NR	Turned on	2L Distilled	43,910	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				4230 desiccant purplish. Tox buckets and grab bottles placed at site.
MO-MPK	1	2	JM,JG	12/28/2020	0445	PST	0.105	0.6	0	6 turned down			Program disabled. Errors have occurred			0445	0445	
MO-MPK	1	3	JM,JG	12/28/2020	1300	PST	0.28	6.8	0.2	0	2L Distilled	188,774	Program done. Errors have occurred.	16L		1310		Fridge off and propped open. 6712 off.
MO-OJA	1	1	WBC	12/26/2020	1235	PST	0.096	5	NR	4	4L Distilled	25,796	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Changed 6712 PDT back to PST. Replaced 4230 desiccant. Tox buckets and grab bottles placed at site.
MO-OJA	1	2	LS,AEA	12/28/2020	0500	PST	0.092	5	NR	2			Sample 29 after 1 pulse. Reprogrammed for 21 more samples. Run program. Program disabled.	1/3 full		0500	0500	

MO-OJA	1	3	LS,DL	12/28/2020	1152	PST	0.153	8	0.15	3	2L Distilled	135,381	Sample 20 after 1 pulse. Stopped program.	1/2 full	1155	Turned 6712 off.
MO-OXN	1	1	PD	12/27/2020	0855	PST	0.113	0.3	Dry	Turned on	4L Distilled	22,990	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.		Changed 6712 PDT back to PST (10:01 to 09:01). Tox buckets and grab bottles placed at site. 4230 desiccant pink.
MO-OXN	1	2	DL,EL	12/28/2020	0640	PST	0.214	1.2	0.25	-4			Sample 26 after 1 pulse	12L	0650 0650	
MO-OXN	1	3	DT,JK	12/28/2020	1242	PST	NR	NR	NR	-4	2L Distilled	NR	Program done	16L	1242	Fridge off and propped open. Changed desiccant.
MO-SIM	1	1	AEA	12/27/2020	0958	PST	0.171	3	NR	Turned on	4L Distilled	22,035	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.		4230 desiccant purple to pink. Tox buckets and grab bottles placed at site.
MO-SIM	1	2	JM,JG	12/28/2020	0540	PST	0.277	10	NR	0			Program done. Errors have occurred.	9L	0550 0550	
MO-SIM	1	3	JM,JG	12/28/2020	1245	PST	0.65	53	NR	3	2L Distilled	102,514	Program done. Errors have occurred.	10L	1246	Fridge off and propped open. 6712 off.
MO-SPA	1	1	PD	12/27/2020	1010	PST	NA	NA	No flow	Turned on	4L Distilled	13,229	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.		Tox buckets and grab bottles placed at site.
MO-SPA	1	2	DL,EL	12/28/2020	0436	PST	NA	NA	Flowing	0			Program done	17L	0445 0445	
MO-SPA	1	3	PD,MD	12/28/2020	1207	PST	NA	NA	Flowing	0	2L Distilled	166,080	Program done	16L	1209	Fridge off and propped open. 6712 off.
MO-THO	1	1	AEA	12/27/2020	1031	PST	2.11	1	<3	3	4L Distilled	23,823	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.		4230 desiccant purple. Tox buckets and grab bottles placed at site.
MO-THO	1	2	JM,JG	12/28/2020	0640	PST	2.976	38	3	3			Sample 27 after 1 pulse. Errors have occurred. Stopped program. Overflowed. >18L		0650 0650	
MO-THO	1	3	JM,JG	12/28/2020	1205	PST	2.301	3	<3	4	2L Distilled	227,930	Program stopped	Overflowed. >18L	1208	
MO-VEN	1	1	LS	12/27/2020	1030	PST	0.041	1	Dry	Turned on	4L Distilled	18,332	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.		4230 desiccant pinkish purple. Tox buckets and grab bottles placed at site.
MO-VEN	1	2	LS,AEA	12/28/2020	0811	PST	0.103	2	0	3			Program disabled.	9L	0815 0815	
MO-VEN	1	3	PD,MD	12/28/2020	1314	PST	0.674	49	0.4	2	2L Distilled	109,013	Program done	16L	1316	Fridge off and propped open. 6712 off.

**Event Notes:**

NR: Not recorded

All times are recorded here in PST

Forecast Rain: Most forecasters in agreement for 0.7-1.2" at our stations and 0.5-2" across the area

Actual Rainfall: 1-1.75" at sites across the county

Storm Control: Kelly Hahs

**Sample Tracking:**

Bacteria samples to VCHCA:

12/28/2020 @ 0910 PST (VR2/MEI/OJA/VEN) by Lara Shellenbarger

12/28/2020 @ 0815 PST (CAM/CC/HUE(+FD+FB)) by Peter Doran

12/28/2020 @ 0845 PST (SPA/FIL/OXN/SCR) by David Laak

12/28/2020 @ 0815 PST (MPK/SIM/THO) by Jaime McClain

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

12/28/2020 @ 0934 PST (VR2/MEI/OJA/VEN) by Peter Doran for Lara Shellenbarger/Arne Anselm

12/28/2020 @ 0934 PST (CAM/CC/HUE) by Peter Doran

12/28/2020 @ 0922 PST (SPA/FIL/OXN/SCR) by David Laak

12/28/2020 @ 0750 PST (MPK/SIM/THO) by Jaime McClain

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

12/28/2020 @ 14:30 (All sampled grabs and composites) to Jose Angulo by Bill Carey

**Meters:**

MPK/SIM/THO (JM/JG): Beckman 410 # 110341139, YSI 85 # 03D0375

OJA/MEI/VR2/VEN (LS,AEA): Beckman 410 # 130240875, YSI 85 # 05E104;

SPA/FIL/OXN/SCR (DL/EL): Beckman 255 # 2554, YSI 85 # 05E112E

CAM/CC/HUE (PD/MD): Beckman 255 # 2151, YSI 85 # 01G0625

Deg F	Deg C	Deg C
29	-2	-1.667
30	-1	-1.111
31	-1	-0.556
32	0	0
33	1	0.556
34	1	1.111
35	2	1.667
36	2	2.222
37	3	2.778
38	3	3.333
39	4	3.889
40	4	4.444
41	5	5.000
42	6	5.556
43	6	6.111
44	7	6.667
45	7	7.222

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	2	1	LS	1/26/2021	1315	PST	1.514	NA	1.5	Turned on	4L Distilled	551,489	Flow: 1 pulse/500mlx35, program disabled				Grab bottles placed onsite. Desiccant purple.	
ME-CC	2	2	MC/DL	1/28/2021	2228	PST	2.578	NA					Sample 11 after 1 pulse	9.5L		2240	Oversampling - homogenized bottle, poured off half.	
ME-CC	2	3	PD	1/29/2021	1100	PST	3.277	NA		0	2L Distilled	924,822	Program done	Full		1110	Turned off 6712 and fridge.	
ME-SCR	2	1	PD	1/26/2021	1121	PST	7.767	NA	NA	2	4L Distilled	322,314	Time: 41 min/500mlx35, program disabled	Installed labelled bottle, lid off.			Grab bottles placed onsite. Lowered swing arm.	
ME-SCR	2	2	PD/MD	1/28/2021	1835	PST		NA	NA				2 samples taken. Reprogrammed 20 min for 33 samples.			2215		
ME-SCR	2	3	PD/MD	1/28/2021	2202	PST	8.076	NA	NA	2			Sample 12 in 14 minutes	7.5L				
ME-SCR	2	4	DL/DW	1/29/2021	1037	PST	7.791	NA	NA	3	2L Distilled	594,431	Program done	20L		1045	Turned off 6712. Raised swing arm.	
ME-VR2	2	1	DL	1/26/2021	0945	PST	5.346	NA		4	4L Distilled	407,720	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.			Grab bottles placed onsite. Checked intake line. 4230 desiccant purple.	
ME-VR2	2	2	DL/DW	1/28/2021	1908	PST	5.518	NA		3			Sample 5 after 1 pulse	2L		1915	Turned off 6712. Took picture of high water mark.	
ME-VR2	2	3	DL/DW	1/29/2021	0923	PST	5.415	NA		4	2L Distilled	720,707	Sample 29 after 1 pulse	15.5L		0930		
MO-CAM	2	1	LS	1/26/2021	1430	PST	0.038	11	0	Turned on	4L Distilled	115,155	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.			Grab bottles placed onsite.	
MO-CAM	2	2	MC/DL	1/28/2021	2137	PST	0.289	42	0.125 @ 2145	1			Sample 15 after 1 pulse	7.5L		2145		
MO-CAM	2	3	PD	1/29/2021	1030	PST	0.035	10	<0.1'	0	2L Distilled	197,385	Program disabled	16L		1035	Turned off 6712 and fridge, propped fridge open.	
MO-FIL	2	1	PD	1/26/2021	0935	PST	0.042	NA	NA	Turned on	4L Distilled	179,798	Time: 41 min/500mlx35, program disabled	Installed labelled bottle, lid off.			Grab bottles placed onsite. Desiccant orange.	
MO-FIL	2	2	PD/MD	1/28/2021	1939	PST	0.716	NA	NA	6			8 samples taken. Reprogrammed 23 min for 25 samples.	6.5L		2015	Recalibrated sample volume to 500ml	
MO-FIL	2	3	MC/DL	1/29/2021	0839	PST	0.233	NA	NA	3	2L Distilled	356,006	Program done	19L		0848	Turned off 6712 and fridge, propped fridge open.	
MO-HUE	2	1	DL	1/26/2021	1106	PST	NA	NA		3	4L Distilled	184,091	Time: 41 min/500mlx35, program disabled	Installed labelled bottle, lid off.			Grab bottles placed onsite.	
MO-HUE	2	2	MC/DL	1/28/2021	1859	PST	NA	NA		4			3 samples taken. Reprogrammed 20 min/500ml for 31 samples.	2.5L		1900		
MO-HUE	2	3	MC/DL	1/29/2021	1024	PST	NA	NA		4	2L Distilled	337,170	Sample 2 in 00:17 Program done	18.25L		1028	Turned off 6712.	
MO-MEI	2	1	DL	1/26/2021	0908	PST	0.079	1	Dry	Turned on	4L Distilled	118,146	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.			Grab bottles placed onsite.	
MO-MEI	2	2	DL/DW	1/28/2021	1812	PST	0.333	21	0.35	1			Sample 12 after 1 pulse	6L		1820	pH meter temp off 7-8 deg	
MO-MEI	2	3	DL/DW	1/29/2021	0851	PST	0.132	3	~0.1	2	2L Distilled	202,660	Program done	19.5L		0855	Turned off 6712 and fridge, propped fridge open.	
MO-MPK	2	1	LS	1/26/2021	1100	PST	0.078	0.2	0, wet in center	Turned on	4L Distilled	193,245	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.			Grab bottles and QC bottles placed onsite.	
MO-MPK	2	2	LS/EL	1/28/2021	1900	PST	0.225	4.1	~0.27	3			Sample 8 after 1 pulse	3L		2000	4230 desiccant purple	
MO-MPK	2	3	PD	1/29/2021	0839	PST	0.109	0.6		2	2L Distilled	336,831	Program done. Errors have occurred.	18L		0845	Field blanks at 1955. Turned off 6712 and fridge, propped fridge open.	
MO-OJA	2	1	DL	1/26/2021	0835	PST	0.096	5	0 Low flow in invert	2	4L Distilled	153,516	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.			Grab bottles placed onsite. Desiccant orange. Cleared debris/palm fronds.	
MO-OJA	2	2	DL/DW	1/28/2021	1728	PST	0.404	33	0.4	2			Sample 11 after 1 pulse	6L		1740		
MO-OJA	2	3	DL/DW	1/29/2021	0825	PST	0.096	5	<0.1	1	2L Distilled	226,145	Program disabled	14L		0830	Turned off 6712.	





Site	Event	Visit	Staff	Date	Arrival Time	PST/PDT	Flowmeter			Fridge T °C	Flush (L)	Pump Count	Program/6712 Display	Comp bottle status/ Estimated Vol (L)	Comp Duration			Toxicity	Notes
							Level (feet)	Flowmeter Flow (cfs)	Outside Staff (ft)						(nearest half hrs)	Comp Time	Grab Time		
ME-CC	3	1	LM	3/9/2021	NR	PST	1.238	NA	NR	Turned on	4L Distilled	Replaced - 0 disabled	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Disconnected 2105 ci. Replaced pump tube and calibrated volume. Reconnected 2105ci. Grab bottles placed onsite. (grabs taken later than other sites because only base flow during initial grab sampling attempt)	
ME-CC	3	2	PD,MD	3/10/2021	1134	PST	1.857	NA	NR	0			Sample 30 after 1 pulse	16L			1140	Turned off 6712 and fridge and propped open.	
ME-CC	3	3	PD,MD	3/10/2021	1248	PST	2.408	NA	NR	0	2L Distilled	435,343	Program done	19L			1249		
ME-SCR	3	1	DL	3/9/2021	1350	PST	7.782	NA	NA	0	4L Distilled	599,337	Time: 21 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Lowered swing arm. Placed grab bottles onsite.	
ME-SCR	3	2	DL,DW	3/10/2021	0342	PST	7.845	NA	NA	-1			Sample 3 in 16:45	1.5L			0350		
ME-SCR	3	3	WBC	3/10/2021	1340	PST	7.734	NA	NA	2	2L Distilled	834,254	Sample 32 in 00:00	16L			1340	Raised swing arm. Turned 6712 off.	
ME-VR2	3	1	WBC	3/9/2021	1145	PST	5.13	NA	NA	5, turned down	4L Distilled	Replaced - 0 disabled	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite. Desiccant blue (good)	
ME-VR2	3	2	LS,MC	3/10/2021	0320	PST	5.169	NA	NA	3			Program disabled	Empty			0330		
ME-VR2	3	3	WBC	3/10/2021	1100	PST	5.17	NA	NA	4	2L Distilled	388,590	Program done	19L			1100	Turned off 6712	
MO-CAM	3	1	DL	3/9/2021	1116	PST	0.034	10	small trickle mid channel	Turned on	4L Distilled	202,157	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite. Desiccant pink.	
MO-CAM	3	2	PD,MD	3/10/2021	0204	PST	0.285	42	0.3	2			NR	3L			0220		
MO-CAM	3	3	PD,MD	3/10/2021	0435	PST	0.036	11	<0.1	4	2L Distilled	286,797	Program done	16.5			0438	Turned off 6712 and fridge and propped open.	
MO-FIL	3	1	WBC	3/9/2021	0915	PST	0.21	NA	NA	Turned on	4L Distilled	361,762	Time: 11 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite. Desiccant orange (good)	
MO-FIL	3	2	DL,DW	3/10/2021	0205	PST	0.594	NA	NA	2			Sample 4 in 9:00	~1L			0215		
MO-FIL	3	3	JM,RP	3/10/2021	0900	PST	0.262	NA	NA	0	2L Distilled	517,512	Program done	17L			0905	Turned off 6712 and fridge and propped open.	
MO-HUE	3	1	DL	3/9/2021	1200	PST	NA	NA	NA	1	4L Distilled	341,564	Time: 11 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Grab bottles placed onsite	
MO-HUE	3	2	PD,MD	3/10/2021	0257	PST	NA	NA	NA	2			Sample 8 in 9 minutes	3.5L			0305		
MO-HUE	3	3	JM,RP	3/10/2021	115	PST	NA	NA	NA	2	2L Distilled	495,003	Program done	19L			1115	Turned off 6712	
MO-MEI	3	1	WBC	3/9/2021	1100	PST	0.079	1	channel dry	Turned on	4L Distilled	208,352	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite. Desiccant orange (good).	
MO-MEI	3	2	LS,MC	3/10/2021	0245	PST	0.077	1	~0.1	2			Program disabled	Empty			0250		
MO-MEI	3	3	JM,RP	3/10/2021	1020	PST	0.079	1	NR	0	2L Distilled	292,149	Program done	16L			1025	Turned off 6712 and fridge and propped open.	
MO-MPK	3	1	LS	3/9/2021	1611	PST	0.072	0.2	0	Turned on	4L Distilled	341,073	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite. Desiccant blue (good).	
MO-MPK	3	2	JM,JK	3/10/2021	0315	PST	0.179	2.9	NR	3			Sample 28 after 1 pulse	1/2 full			0315		
MO-MPK	3	3	JM,JK	3/10/2021	0424	PST	0.091	0.4	NR	-5			Program disabled	3/4 full			0427	Turned off 6712 and fridge and propped open. (Needs flushed).	
MO-OJA	3	1	WBC	3/9/2021	1030	PST	0.098	5	trickle	2	4L Distilled	231,566	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite. Desiccant orange (good).	
MO-OJA	3	2	LS,MC	3/10/2021	0205	PST	0.096	5	~0.1	3			Program disabled	Empty			0210		
MO-OJA	3	3	JM,RP	3/10/2021	0955	PST	0.099	5	<0.1	4	2L Distilled	288,843	Program disabled	10L			1000	Turned off 6712	
MO-oxn	3	1	DL	3/9/2021	1301	PST	0.115	0.3	Dry	Turned on	4L Distilled	298,142	Flow: 1 pulse/500mlx35, program disabled	Installed labelled bottle, lid off.				Placed grab bottles onsite. Desiccant pink.	
MO-oxn	3	2	DL,DW	3/10/2021	0255	PST	0.54	7.4	0.6	1			Sample 28 after 1 pulse	13L			0300		
MO-oxn	3	3	DL,DW	3/10/2021	0428	PST	0.319	2.8	0.32	1	2L Distilled	428,846	Program done	16L			0435	Turned off 6712 and fridge and propped open.	



Site	Event	Visit	Staff	Date	Arrival Time	PST/PDT	Flowmeter			Fridge T °C	Flush (L)	Pump Count	Program/6712 Display	Comp bottle status/ Estimated Vol (L)	Comp Duration			Toxicity	Notes
							Level (feet)	Flowmeter Flow (cfs)	Outside Staff (ft)						(nearest half hrs)	Comp Time	Grab Time		
ME-SCR	4	1	KH,WBC	4/26/2021	1100	PDT	7.542	NA	NA	0	4L Distilled	840,189	Time: 40 min/500mlx35	Installed labelled bottle, lid off.				Lowered swing arm	
ME-SCR	4	2	KH,WBC	4/27/2021	1000	PDT	7.588	NA	NA	2	2L Distilled	1,104,862	Program done	17L	24	1000	1010	Collected sample for SCCWRP CEC study. Raised swing arm.	
MO-FIL	4	1	KH,WBC	4/26/2021	1010	PDT	0.186	NA	NA	Turned on	4L Distilled	517,913	Time: 40 min/500mlx35	Installed labelled bottle, lid off.				Cleared area around intake	
MO-FIL	4	2	KH,WBC	4/27/2021	0855	PDT	0.201	NA	NA	0	2L Distilled	680,256	Sample 35 in 00:04. Errors have occurred [2043-0003 PST (samples 18-23) "No More Liquid"]	Full to neck (20L)	24	0900	0900	Collected sample for SCCWRP CEC study	
MO-OXN	4	1	KH,WBC	4/26/2021	0810	PDT	0.112	0.3	Dry	Turned on	4L Distilled	434,491	Time: 20 min/500mlx35, 720 min delay to start	Installed labelled bottle, lid off.				Installed silicone extension line and silicone dam in channel. Small pond/damp ground ~75' upstream of station from outfall ~ 150' upstream of station.	
MO-OXN	4	2	KH,WBC	4/27/2021	0730	PDT	0.11	0.3	Dry	2	-	667,746	Sample 35 in 00:16	Empty	Dry	Dry	Dry	Channel dry. Reconnected intake line and removed silicone dam.	
MO-SPA	4	1	KH,WBC	4/26/2021	0940	PDT	NA	NA	Dry	Turned on	4L Distilled	522,264	Time: 5 min/500mlx35, program disabled	Installed labelled bottle, lid off.				Installed silicone dam in channel	
MO-SPA	4	2	KH,WBC	4/27/2021	0834	PDT	NA	NA	Dry	2	-	522,264	Program disabled	Empty	Dry	Dry	Dry	Pipe dry. Removed silicone dam. Man smoking and eating in RCP.	
MO-VEN	4	1	KH,WBC	4/26/2021	0900	PDT	0.052	1	Dry	Turned on	4L Distilled	307,067	Time: 20 min/500mlx35, 720 min delay to start	Installed labelled bottle, lid off.				Installed calibration line and silicone dam in channel	
MO-VEN	4	2	KH,WBC	4/27/2021	0755	PDT	0.043	1	Dry	2	-	419,701	Sample 34 in 00:16	Empty	Dry	Dry	Dry	Channel dry. Reconnected intake line and removed silicone dam.	
ME-VR2	4	1	KH,WBC	5/11/2021	0940	PDT	5.283	NA	NA	4	4L Distilled	398,311	Time: 40 min/500mlx35	Installed labelled bottle, lid off.					
ME-VR2	4	2	KH,WBC	5/12/2021	0900	PDT	5.276	NA	NA	6	2L Distilled	770,373	Program done. Warning replace pump tubing	19L	24	0900	0900	Collected sample for SCCWRP CEC study	
MO-MEI	4	1	KH,WBC	5/12/2021	0830	PDT	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	No setup as site completely dry.	
MO-MEI	4	2	KH,WBC	5/12/2021	0735	PDT	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Photos taken both days to document	
MO-OJA	4	1	KH,WBC	5/11/2021	0800	PDT	0.098	5	<0.01 cfs	1	4L Distilled	293,812	Time: 40 min/500mlx35	Installed labelled bottle, lid off.				Installed calibration line and silicone dam in channel	
MO-OJA	4	2	KH,WBC	5/12/2021	0800	PDT	0.099	5	<0.01 cfs	2			Program done. Restarted program.	0.5L			0800	Tube likely came out of bottle when checking for sample 1 volume. Water in fridge and on floor of house. Collected SCCWRP CEC sample.	
MO-OJA	4	3	KH,WBC	5/13/2021	0955	PDT	0.096	5	<0.01 cfs	2	2L Distilled	481,795	Program done	20L	24	0955		Removed silicone dam from channel and reconnected intake line	
MO-HUE	4	1	KH,WBC	5/11/2021	1040	PDT	NA	NA	NA	2	4L Distilled	501,325	Time: 40 min/500mlx35	Installed labelled bottle, lid off.				Pump station turned on pump while onsite and very strong sulfur odor present after	
MO-HUE	4	2	KH,WBC	5/12/2021	0950	PDT	NA	NA	NA	2	2L Distilled	656,677	Program done	18.5L	24	0950	0950		
ME-CC	4	1	KH,WBC	4/28/2021	0935	PDT	1.261	NA	NR	Turned on	4L Distilled	446,083	Time: 40 min/500mlx35	Installed labelled bottle, lid off.					
ME-CC	4	2	KH,WBC	4/29/2021	0950	PDT	1.167	NA	NR	2	2L Distilled	825,204	Program done	20L	24	1000	1000	Collected sample for SCCWRP CEC study.	
MO-CAM	4	1	KH,WBC	4/28/2021	1004	PDT	0.033	10	<0.01 cfs	Turned on	4L Distilled	293,749	Time: 40 min/500mlx35	Installed labelled bottle, lid off.				Installed calibration line and silicone dam in channel	

MO-CAM	4	2	KH,WBC	4/29/2021	1030	PDT	0.035	10	<0.01 cfs	3	2L Distilled	383,430	Program done. Errors have occurred (No more liquid @09:28 & 17:28 (samples 1 & 13)	17L	24	1035	1035	Collected sample for SCCWRP CEC study. Reconnected intake line and removed silicone dam.
MO-MPK	4	1	KH,WBC	4/28/2021	0735	PDT	0.072	0.2	<0.1 cfs	Turned on	4L Distilled	420,974	Time: 40 min/500mlx35 for 1 sample, then changed to 7 min/1000mlx17	Installed labelled bottle, lid off.				Installed calibration line and silicone dam in channel. Flow present so sampler paced aggressively since channel frequently dry.
MO-MPK	4	2	KH,WBC	4/29/2021	0740	PDT	0.075	0.2	Dry/Ponds	0	2L Distilled	557,614	Program done	16.5L	24	0740	NA	Reconnected intake line and removed silicone dam. Flow had stopped and channel dry/ponded, insufficient water present for grab samples
MO-SIM	4	1	KH,WBC	4/28/2021	0815	PDT	NR	NR	<1 cfs	Turned on	4L Distilled	NR	Time: 40 min/500mlx35	Installed labelled bottle, lid off.				Installed calibration line in channel
MO-SIM	4	2	KH,WBC	4/29/2021	0815	PDT	0.17	3	<1 cfs	2	2L Distilled	359,603	Program done	17L	24	0820	0820	Collected sample for SCCWRP CEC study. Removed silicone dam.
MO-THO	4	1	KH,WBC	4/28/2021	0900	PDT	2.006	0	NR	4	4L Distilled	342,448	Time: 40 min/500mlx35	Installed labelled bottle, lid off.				
MO-THO	4	2	KH,WBC	4/29/2021	0910	PDT	2.128	1	NR	4	2L Distilled	505,239	Program done	18L	24	0915	0915	Collected sample for SCCWRP CEC study.

**Event Notes:**

NR: Not recorded  
All times are recorded here in PDT  
Forecast Rain: Not applicable

**Sample Tracking:**

Bacteria and chemistry grab and composite samples to Weck Laboratories, Inc. (via Weck-provided courier)  
04/27/2021 @ 12:45 PDT (SCR/FIL) by W.B. Carey (no samples at OXN/SPA/VEN (dry)) to RMS courier  
04/29/2021 @ 12:20 PDT (CC/CAM/MPK/SIM/THO) by K. Hahs (no grabs at MPK (dry)) to RMS courier  
05/12/2020 @11:53 PDT (VR2/MEI/OJA(grabs only)/HUE) by K. Hahs (MEI dry) to RMS courier  
05/13/2020 @12:15 PDT (OJA comp) by W.B. Carey to DCS Courier

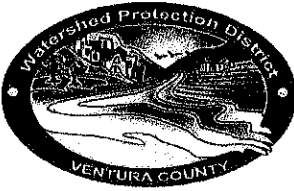
**Meters:**

SCR/FIL (WBC,KH): Beckman 255 #2554, YSI 85 #05E1126  
CC/CAM/SIM/THO (WBC/KH): Beckman 255 #2554, YSI 85 #05E1126  
VR2/OJA/HUE (WBC,KH): Beckman 255 # 2554, YSI 85 # 05E1042

Deg F	Deg C	Deg C
29	-2	-1.667
30	-1	-1.111
31	-1	-0.556
32	0	0
33	1	0.556
34	1	1.111
35	2	1.667
36	2	2.222
37	3	2.778
38	3	3.333
39	4	3.889
40	4	4.444
41	5	5.000
42	6	5.556
43	6	6.111
44	7	6.667
45	7	7.222

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

OH19062



Chain of Custody Record
Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season

Pre-season - Weck Laboratories. Invoice Contract No. AE17-001 Mod No. 4

Sampling Date: 8/18/2020 + 8/19/2020 Project Number: 2020/21-PRE

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

Table with columns: SAMPLE ID, DATE/TIME COLLECTED, EPA 525.2, EPA 625-CTR, EPA 353.2 (NO2+NO3-N), EPA 200.8\* (total only, see list in side bar), EPA 245.1. Hg (total only), No action required, Clean with detergent and HNO3 (see notes #2), Please dispose of per Lab SOP, Bottle Quantity, NOTES. Includes rows for EB lines, EB composite, 20 L carboy and lid, Blue cube cooler, Black bag, Waste Dilute HNO3.

\* Metals by EPA 200.8, Total: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn

Relinquished Printed Name W.B. CAREY

Signature W.B. Carey

Affiliation VCWPD Date/Time 8-19-20/1348

Received Printed Name [Signature]

Signature [Signature]

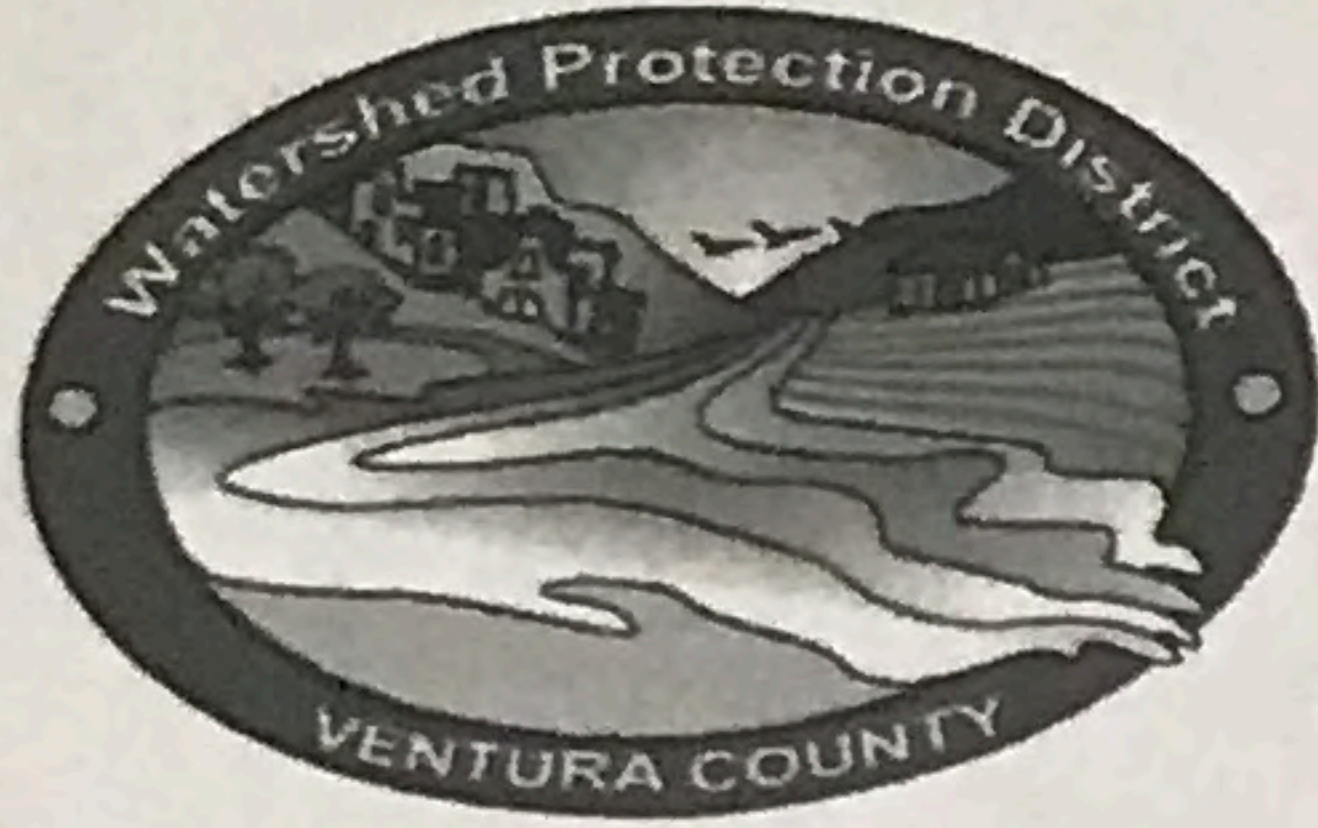
Affiliation Weck Labs Date/Time 8-19-20/1348

- Other Notes: 1. Please use for MS/MSD analysis when sample volume permits. 2. Please clean with detergent, nitric acid, and deionized water per SOP.

Handwritten notes and signatures at the bottom of the page, including dates 8/19/20 and 8-19-20, and times 9:45 and 10:53.

8/20/2021: Note EB Lines was MO-SPA

Handwritten numbers 2.3 and T0229



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

Sampling Date: 12/28/20

Project Number: 2020/21-1 (Wet)

Sampling Team: PD, MD

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-SPA		X	X							1	
	MO-FIL		X	X							1	
	MO-SIM		X	X							1	
	MO-MPK		X	X							1	
	MO-THO		X	X							1	
	MO-OXN		X	X							1	
	MO-HUE	12.28.20 / 0715	X	X							1	
	FD-1	12.28.20 / 0715	X	X							1	

Relinquished Printed Name: PETER DORAN

Signature: [Signature]

Affiliation: Rincon Date/Time: \_\_\_\_\_

Received Printed Name: Cameron Chandler

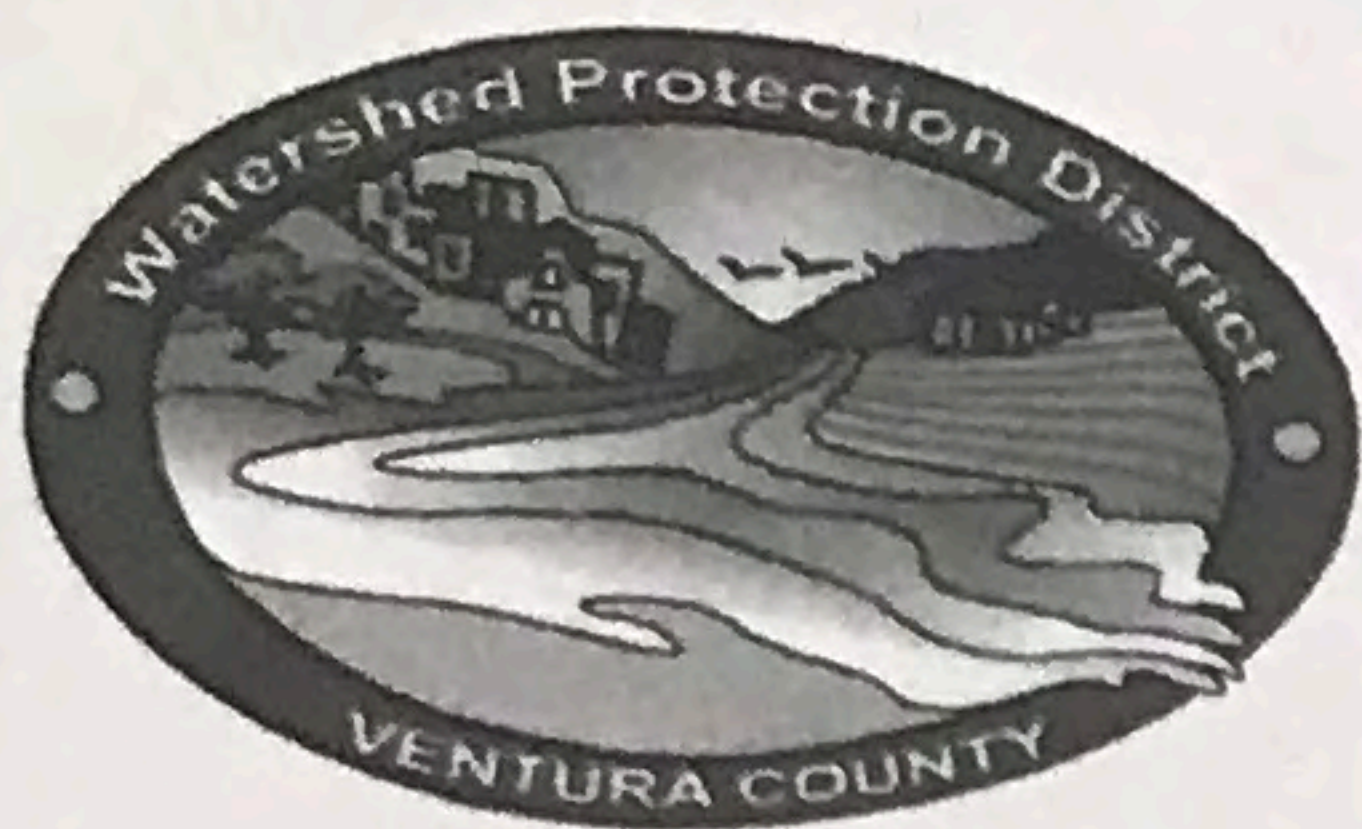
Signature: [Signature]

Affiliation: PHL Date/Time: 12/28/20 0815

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 2)**

Sampling Date: 12/28/20

Project Number: 2020/21-1 (Wet)

Sampling Team: PD, MD

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	12-28-20/0610	X	X							1	
	ME-SCR		X	X							1	
	ME-VR2		X	X							1	
	MO-CAM	12-28-20/0500	X	X							1	
	MO-OJA		X	X							1	
	MO-MEI		X	X							1	
	MO-VEN		X	X							1	
	FB-1		X	X							1	

Relinquished Printed Name Peter Duan  
 Signature [Signature]  
 Affiliation Rincon Date/Time \_\_\_\_\_

Received Printed Name Cameron Chanow  
 Signature [Signature]  
 Affiliation PH Date/Time 12/28/20 0615

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: 12-28-2020 Project Number: 2020/21-1 (Wet)  
 Sampling Team: Lara Shellenbarger Ame Anselm

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		X	X							1	
	ME-SCR		X	X							1	
	ME-VR2	12-28-2020 7:00	X	X							1	
	MO-CAM		X	X							1	
	MO-OJA	12-28-2020 5:00	X	X							1	
	MO-MEI	12-28-2020 6:00	X	X							1	
	MO-VEN	12-28-2020 8:15	X	X							1	
	FB-1		X	X							1	

Relinquished Printed Name Lara Shellenbarger  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 12-28-2020 9:10

Received Printed Name Mary K. Thomas  
 Signature [Signature]  
 Affiliation PH Lab Date/Time 12/28/20 @ 910

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 2 of 2)**

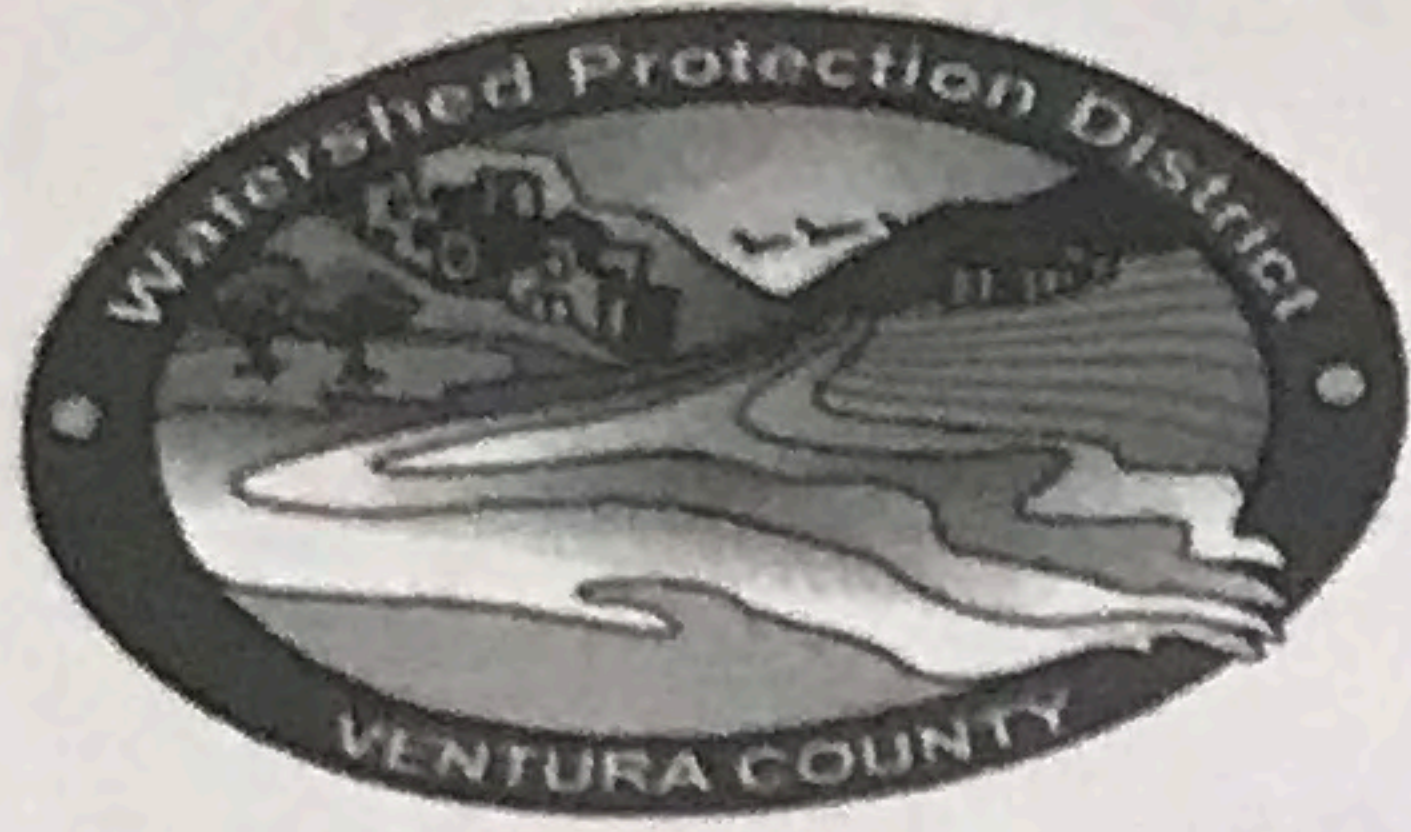
Sampling Date: 12/28/2020 Project Number: 2020/21-1 (Wet)  
 Sampling Team: DL+EL

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-SPA	12/28/20 04:45	X	X							1	
	MO-FIL	12/28/20 05:45	X	X							1	
	<del>MO-SIM</del>		<del>X</del>	<del>X</del>							<del>1</del>	
	<del>MO-MPK</del>		<del>X</del>	<del>X</del>							<del>1</del>	
	<del>MO-THO</del>		<del>X</del>	<del>X</del>							<del>1</del>	
	MO-OXN	12/29/20 06:50	X	X							1	DL+EL
	<del>MO-HUE</del>		<del>X</del>	<del>X</del>							<del>1</del>	
	<del>ED-1</del>		<del>X</del>	<del>X</del>							<del>1</del>	

Relinquished Printed Name David Leak  
 Signature [Signature]  
 Affiliation VCWPD Date/Time 12/28/20 08:45

Received Printed Name Mary K. Thomas  
 Signature [Signature]  
 Affiliation PA Lab Date/Time 12/28/20 @ 0845

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 2)**

Sampling Date: 12/28/20

Project Number: 2020/21-1 (Wet)

Sampling Team: EL + PL

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-CC</del>		<del>X</del>	<del>X</del>						<del>1</del>	
	ME-SCR	12/28/20 07:50	X	X						1	DL + EL
	<del>ME-VR2</del>		<del>X</del>	<del>X</del>						<del>1</del>	
	<del>MO-CAM</del>		<del>X</del>	<del>X</del>						<del>1</del>	
	<del>MO-OJA</del>		<del>X</del>	<del>X</del>						<del>1</del>	
	<del>MO-MEI</del>		<del>X</del>	<del>X</del>						<del>1</del>	
	<del>MO-VEN</del>		<del>X</del>	<del>X</del>						<del>1</del>	
	<del>EB-1</del>		<del>X</del>	<del>X</del>						<del>1</del>	

Relinquished Printed Name \_\_\_\_\_  
 Signature \_\_\_\_\_  
 Affiliation \_\_\_\_\_ Date/Time \_\_\_\_\_

Received Printed Name \_\_\_\_\_  
 Signature \_\_\_\_\_  
 Affiliation \_\_\_\_\_ Date/Time \_\_\_\_\_

SEE OTHER SIDE

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 2 of 2)**

Sampling Date: 12/28/20 Project Number: 2020/21-1 (Wet)  
 Sampling Team: JM / JG

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-SPA		X	X							1	
	MO-FIL		X	X							1	
	MO-SIM	12/28/20 0550	X	X							1	
	MO-MPK	12/28/20 0445	X	X							1	
	MO-THO	12/28/20 0650	X	X							1	
	MO-OXN		X	X							1	
	MO-HUE		X	X							1	
	FD-1		X	X							1	

Relinquished Printed Name Jaime McClain  
 Signature [Signature]  
 Affiliation Bincan Consultants Date/Time 12/28/20 0815

Received Printed Name Cameron Chandler  
 Signature [Signature]  
 Affiliation PH Date/Time 12/29/20 0815

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**

Side 1 of 2

Sampling Date: \_\_\_\_\_ Project Number: 2020/21-1 (Wet)  
 Sampling Team: \_\_\_\_\_

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt ( <i>Atherinops affinis</i> )	Chronic toxicity - inland silverside ( <i>Menidia beryllina</i> )	Chronic toxicity - giant kelp ( <i>Macrocystis pyrifera</i> )	Chronic toxicity - purple sea urchin ( <i>Strongylocentrotus purpuratus</i> )	Chronic toxicity - fathead minnow ( <i>Pimephales promelas</i> )	Chronic toxicity - daphnid ( <i>Ceriodaphnia dubia</i> )	Chronic toxicity - green alga ( <i>Raphidocelis subcapitata</i> )	Number of 5-Gallon Buckets	NOTES
<del>ME-CC</del>		X							2	<del>Note 1, Note 2, Note 3</del>
135 ME-SCR	12/27/20 07:50		9.0		X				1	Note 1, Note 2, Note 3 COJ = COJ
<del>ME-VR2</del>		X							2	<del>Note 1, Note 2, Note 3</del>
<del>MO-CAM</del>						X			2	<del>Note 1, Note 2, Note 3</del>
<del>MO-OJA</del>						X			2	<del>Note 1, Note 2, Note 3</del>
<del>MO-MEI</del>						X			2	<del>Note 1, Note 2, Note 3</del>
<del>MO-VEN</del>							X		2	<del>Note 1, Note 2, Note 3</del>

Relinquished Printed Name \_\_\_\_\_  
 Signature  \_\_\_\_\_  
 Affiliation \_\_\_\_\_ Date/Time \_\_\_\_\_

Received Printed Name \_\_\_\_\_  
 Signature \_\_\_\_\_  
 Affiliation \_\_\_\_\_ Date/Time \_\_\_\_\_

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 50%  
Note 3: Notify District within 24 hours if significant toxicity is observed.



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

Side 2 of 2

Sampling Date: 12/28/20

Project Number: 2020/21-1 (Wet)

Sampling Team: PD, MD

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt ( <i>Atherinops affinis</i> )	Chronic toxicity - inland silverside ( <i>Menidia beryllina</i> )	Chronic toxicity - giant kelp ( <i>Macrocystis pyrifera</i> )	Chronic toxicity - purple sea urchin ( <i>Strongylocentrotus purpuratus</i> )	Chronic toxicity - fathead minnow ( <i>Pimephales promelas</i> )	Chronic toxicity - daphnid ( <i>Ceriodaphnia dubia</i> )	Chronic toxicity - green alga ( <i>Raphidocelis subcapitata</i> )	Number of 5-Gallon Buckets	NOTES
MO-OXN						X			2	Note 1, Note 2, Note 3
MO-HUE	12-28-20/0715		9.8°C				X		3	Note 1, Note 2, Note 3, Note 4
MO-THO							X		2	Note 1, Note 2, Note 3
MO-MPK								X	2	Note 1, Note 2, Note 3
MO-SIM							X		2	Note 1, Note 2, Note 3
MO-FIL							X		2	Note 1, Note 2, Note 3
MO-SPA						X			2	Note 1, Note 2, Note 3

Relinquished Printed Name Peter Doran

Signature [Signature]

Affiliation Bicon Date/Time 12-28-20 / 0934

Received Printed Name [Signature]

Signature [Signature]

Affiliation AQUATIC BIOMASS Date/Time 12/28/20 0934

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**

Side 2 of 2

Sampling Date: 12/28/20 Project Number: 2020/21-1 (Wet)  
 Sampling Team: JM/JG

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt ( <i>Atherinops affinis</i> )	Chronic toxicity - inland silverside ( <i>Menidia beryllina</i> )	Chronic toxicity - giant kelp ( <i>Macrocystis pyrifera</i> )	Chronic toxicity - purple sea urchin ( <i>Strongylocentrotus purpuratus</i> )	Chronic toxicity - fathead minnow ( <i>Pimephales promelas</i> )	Chronic toxicity - daphnid ( <i>Ceriodaphnia dubia</i> )	Chronic toxicity - green alga ( <i>Raphidocelis subcapitata</i> )	Number of 5-Gallon Buckets	NOTES
MO-OXN						X			2	Note 1, Note 2, Note 3
MO-HUE							X		3	Note 1, Note 2, Note 3, Note 4
MO-THO	12/28/20 0650		3.5°C				X		2	Note 1, Note 2, Note 3
MO-MPK	12/28/20 0445		1.0°C					X	2	Note 1, Note 2, Note 3
MO-SIM	12/28/20 0550		2.0°C				X		2	Note 1, Note 2, Note 3
MO-FIL							X		2	Note 1, Note 2, Note 3
MO-SPA						X			2	Note 1, Note 2, Note 3

12/29  
130  
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COA = COA  
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Relinquished

Printed Name Jaime McLain  
 Signature [Signature]  
 Affiliation Rincon Consulting Date/Time 12/28/20 0750

Received

Printed Name Michael Machuzak  
 Signature [Signature]  
 Affiliation Aquatic Biodiversity Date/Time 12/28/2020 0750

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**

Side 1 of 2

Sampling Date: 12/28/20 Project Number: 2020/21-1 (Wet)

Sampling Team: PD, MD

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	12-28-20/0610	X	10.8°C						2	Note 1, Note 2, Note 3
ME-SCR					X				1	Note 1, Note 2, Note 3
ME-VR2	12-28-20 7:00	X	7.3°C						2	Note 1, Note 2, Note 3
MO-CAM	12-28-20/0500		9.8°C			X			2	Note 1, Note 2, Note 3
MO-OJA	12-28-20 0500		4.3°C			X			2	Note 1, Note 2, Note 3
MO-MEI	12-28-20 06100		6.8°C			X			2	Note 1, Note 2, Note 3
MO-VEN	12-28-20 08:5		7.8°C				X		2	Note 1, Note 2, Note 3

136  
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141

CO1 = CO1  
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CO1 = CO1

Relinquished Printed Name Peter Doran

Signature [Signature]

Affiliation Rincon Date/Time 12-28-20 0934

Received Printed Name [Signature]

Signature [Signature]

Affiliation Aquatic Biosystems Date/Time 12/28/20 0934

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 AE20-007)**  
**Toxicity - ABC Laboratories**

Side 2 of 2

Sampling Date: \_\_\_\_\_

Project Number: 2020/21-1 (Wet)

Sampling Team: \_\_\_\_\_

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt ( <i>Atherinops affinis</i> )	Chronic toxicity - inland silverside ( <i>Menidia beryllina</i> )	Chronic toxicity - giant kelp ( <i>Macrocystis pyrifera</i> )	Chronic toxicity - purple sea urchin ( <i>Strongylocentrotus purpuratus</i> )	Chronic toxicity - fathead minnow ( <i>Pimephales promelas</i> )	Chronic toxicity - daphnid ( <i>Ceriodaphnia dubia</i> )	Chronic toxicity - green alga ( <i>Raphidocelis subcapitata</i> )	Number of 5-Gallon Buckets	NOTES
132 MO-OXN	12/28/20 06:50	7.8 °C				X			2	Note 1, Note 2, Note 3
<del>MO-HUE</del>	<del>_____</del>						X		3	<del>Note 1, Note 2, Note 3, Note 4</del>
<del>MO-THO</del>	<del>_____</del>						X		2	<del>Note 1, Note 2, Note 3</del>
<del>MO-MPK</del>	<del>_____</del>							X	2	<del>Note 1, Note 2, Note 3</del>
<del>MO-SIM</del>	<del>_____</del>						X		2	<del>Note 1, Note 2, Note 3</del>
133 MO-FIL	12/28/20 05:45	7.8 °C					X		2	Note 1, Note 2, Note 3
134 MO-SPA	12/28/20 04:45	4.8 °C				X			2	Note 1, Note 2, Note 3

Relinquished

Printed Name

David Leak

Signature

*[Signature]*

Affiliation

VCWPO

Date/Time

12/28/2020 09:22

Received

Printed Name

E. MARSHALL

Signature

*[Signature]*

Affiliation

ABC LABS.

Date/Time

12-28-20 09:22

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*



0178073

## 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: 12/28/20 Project Number: 2020/21-1 (Wet) Grabs  
 Sampling Team: JM, JG, PD, MD, AA, LS, DL, EL

SAMPLE ID	DATE/TIME COLLECTED	Analytes						Number of Bottles	NOTES
		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			
ME-CC	12-28-20/0610	1	1	2	3	1	8	PD/MD	
ME-SCR	12/28/20 07:50	1	1	2	3	1	8	DL, EL	
ME-VR2	12-28-20 <del>08:15</del> <b>07:00</b>	1	1	2	3	1	8	AA, LS	
MO-CAM	12-28-20/0500	2	1	2	3	1	10	PD/MD	
MO-OJA	12-28-20 05:00	1	1	2	3	1	8	AA, LS	
MO-MEI	12-28-20 06:00	1	1	2	3	1	8	AA, LS	
MO-VEN	12-28-20 <del>07:00</del> <b>08:15</b>	1	1	2	3	1	8	AA, LS	
MO-OXN	12/28/20 06:50	1	1	2	3	1	8	DL, EL	
FD-1	12-28-20/0715	1	1	2	3	1	8	PD/MD	

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

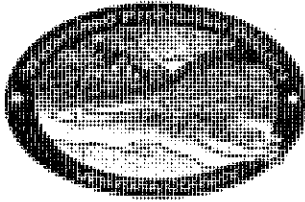
Relinquished Printed Name: WILLIAM B. CAREY  
 Signature: William B. Carey  
 Affiliation: VCWPD Date/Time: 12/28/20 1:30

Received Printed Name: JOSE AM  
 Signature: [Signature]  
 Affiliation: DCS Date/Time: 12/28/20 1430

Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE)  
EPA 624.1 has replaced EPA 624 for MTBE and 2-Cleve

Sample times corrected for ME-VR2 and MO-  
 VEN. Notified lab on 01/08/2021.

[Signature] 12/28/20 1.8°C T-0239  
 1642



**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: 12/28/20  
 Sampling Team: JM, JG, PD, MD, AA, LS, DL, EL

Project Number: 2020/21-1 (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
MO-SPA	12/28/20 04:45	1	1	2	3	1									8	DL/EL
MO-FIL	12/28/20 05:45	1	1	2	3	1									8	DL/EL
MO-SIM	12/28/20 0550	1	1	2	3	1									8	JM/JG
MO-HUE	12-28-20 0715	1	1	2	3	1									8	PD/MD
MO-THO	12/28/20 0650	1	1	2	3	1									8	JM/JG
MO-MPK	12/28/20 0445	1	1	2	3	1									8	JM/JG
FB-1	12-28-20/0715	1	1	2	3	1									8	PD/MD

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 12/28/20 1430

Received Printed Name JOSE ANGULO  
 Signature [Signature]  
 Affiliation DCS Date/Time 12/28/20 1430

Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE)  
EPA 624.1 has replaced EPA 624 for MTBE and 2-Cleve  
[Signature] 12/28/20  
1642



**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 2)**

0L28059

Sampling Date: 12-28-20 Project Number: 2020/21-1 (Wet) Composites

Sampling Team: JM, JG, PD, MD, AA, LS, DL, EL, DT & JAKE

SAMPLE ID	DATE/TIME COLLECTED	Subsample for Imazapyr and NID as CTAS (see V-11-COC)	Dissolved Inorganic Carbon and Dissolved Organic Carbon	NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	C+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (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, 525-OPP-LL (replace w 625-OPP)	DRO/ORO (EPA 8015BD)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-CC	12/28/20 1137			X	X	X	X	X	X	X	X	X	X	X	1	JM/JG
ME-SCR	12-28-20 1258				X	X	X	X	X	X	X	X	X	X	1	LS, DL
ME-VR2	12-28-20 1045				X	X	X	X	X	X	X	X	X	X	1	LS, DL
MO-CAM	12-28-20 1301				X	X	X	X	X	X	X	X	X	X	1	DT, JAKE
MO-OJA	12-28-20 1155				X	X	X	X	X	X	X	X	X	X	1	LS, DL
MO-MEI	12-28-20 1120				X	X	X	X	X	X	X	X	X	X	1	LS, DL
MO-VEN	12-28-20 1316				X	X	X	X	X	X	X	X	X	X	1	PD, MD

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.), AND Na, K  
 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)

Relinquished Printed Name WILLIAM B. CAREY

Signature William B. Carey

Affiliation VCWPD Date/Time 12/28/20 1430

Received Printed Name JOSE ANGLICO

Signature JA

Affiliation DLS Date/Time 12/28/20 1430

- 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).  
 3) Imazapyr (EPA 538) and NID as CTAS (SM 5540D) are to be processed under a separate COC

*[Handwritten signature]*  
 12/28/20  
 1642  
 2.10 10239



**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 2 of 2)**

0128059

Sampling Date: 12-28-20 Project Number: 2020/21-1 (Wet) Composites

Sampling Team: JM, JG, PD, MD, AA, LS, AL, EL, DT & JAKE

SAMPLE ID	DATE/TIME COLLECTED	Dissolved-Inorganic-Carbon-and-Dissolved-Organic-Carbon	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, SO4 (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, 525-OPP-LL-(replace w 625-OPP)	DRO/ORO (EPA 8015BD)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	NOTES
MO-SPA	12/29/20 1209	X	X	X	X	X	X	X	X	X	X	X	1	PD, MD
MO-FIL	12/29/20 1236	X	X	X	X	X	X	X	X	X	X	X	1	PD, MD
MO-SIM	12/28/20 1246	X	X	X	X	X	X	X	X	X	X	X	1	JM / JG
MO-MPK	12/28/20 1310	X	X	X	X	X	X	X	X	X	X	X	1	JM / JG
MO-THO	12/28/20 1208	X	X	X	X	X	X	X	X	X	X	X	1	JM / JG
MO-OXN	12/28/20 1242	X	X	X	X	X	X	X	X	X	X	X	1	DT, JAKE
MO-HUE	12/29/20 1122	X	X	X	X	X	X	X	X	X	X	X	1	PD, MD

Relinquished Printed Name WILLIAM B. CAREY  
 Signature William B. Carey  
 Affiliation VCWPA Date/Time 12/28/20 1430

Received Printed Name JOSE ANGLICO  
 Signature [Signature]  
 Affiliation DCS Date/Time 12/28/20 1430

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).

[Signature] 12/28/20 2:10 10239  
 1642



1A29121



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: 1/28/2021
Sampling Team: DL+DLW, PD+MD, MC + DL

Project Number: 2020/21-2 (Wet) Grabs

Table with columns: 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. Rows include ME-CC, ME-SCR, ME-VR2, MO-CAM, MO-OJA, MO-MEI, MO-VEN, MO-OXN, and FD-1.

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

Relinquished Printed Name W.B. CAREY
Signature W.B. Carey
Affiliation VCWPD Date/Time 1-29-21/1400

\*FD-1 sample info not recorded on COC, added manually.

Received Printed Name Silver Contreras
Signature Silver Contreras
Affiliation DCS Date/Time 1-29-21/1400

Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE
EPA 624.1 has replaced EPA 624 for MTBE and 2-Cleve

Handwritten signature and date/time: 1/29/21 1630 0.8% T-0230





**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: 1-28-21

Project Number: 2020/21-2 (Wet) Grabs

Sampling Team: P. DORAN, M. DORAN, L. SHELLEN BARBER, E. LOMELI, M. CARTER, D. LENZ

SAMPLE ID	DATE/TIME COLLECTED	Analytes						Number of Bottles	NOTES
		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			
MO-SPA	1/28/21 2110	1	1	2	3	1	8	PD+MD	
MO-FIL	1/28/21 2015	1	1	2	3	1	8	PD+MD	
MO-SIM	1/28/21 2110	1	1	2	3	1	8	LS & EL	
MO-HUE	1/28/21 1900	1	1	2	3	1	8	MC + DL	
MO-THO	1/28/21 2215	1	1	2	3	1	8	LS & EL	
MO-MPK	1/28/21 2000	1	1	2	3	1	8	LS & EL	
FB-1	1/28/21 1955	1	1	2	3	1	8	LS & EL	

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

Relinquished Printed Name W. B. CAREY  
 Signature W. B. Carey  
 Affiliation VCWPD Date/Time 1-29-21 / 1400

Received Printed Name Diavel Cortez  
 Signature [Signature]  
 Affiliation DSC Date/Time 1-29-21 / 1400

Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE)  
EPA 624.1 has replaced EPA 624 for MTBE and 2-Cleve

[Signature] 1/29/21      0.8°C T-0230 1630

1A29022



**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 2)**

Sampling Date: 1-29-21 Project Number: 2020/21-2 (Wet) Composites

Sampling Team: DL, DW, PD, DL

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, 525-OPP-LL-(replace w 625-OPP)	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-CC	1/29/21 11:10	X	X	X	X	X	X	X	X	X	X	X	1	PD
ME-SCR	1/29/21 10:45		X	X	X	X	X	X	X	X	X	X	1	DL+DW
ME-VR2	1/29/21 09:30		X	X	X	X	X	X	X	X	X	X	1	DL+DW
MO-CAM	1/29/21 10:35		X	X	X	X	X	X	X	X	X	X	1	PD
MO-OJA	1/29/21 08:30		X	X	X	X	X	X	X	X	X	X	1	DL+DW
MO-MEI	1/29/21 08:55		X	X	X	X	X	X	X	X	X	X	1	DL+DW
MO-VEN	1/29/21 10:00		X	X	X	X	X	X	X	X	X	X	1	DL+DW

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 W.B. CAREY  
 Signature W.B. Carey  
 Affiliation VCWPD Date/Time 1-29-21/1400

Received Printed Name Silver Centreas  
 Signature [Signature]  
 Affiliation DCS Date/Time 1-29-21 . 1400

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).

[Signature] 1/29/21 1:20 10230 1630



**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 2 of 2)**

Sampling Date: 1-29-21

Project Number: 2020/21-2 (Wet) Composites

Sampling Team: MC, DL, PD, DL

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, 525-OPP-LL-(replace w 625-OPP)	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	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)	
MO-SPA	1/29/21 0930					X	X	X	X	X	X	X	X	X	X	X	1	MC + DL
MO-FIL	1/29/21 0848					X	X	X	X	X	X	X	X	X	X	X	1	MC + DL
MO-SIM	1/29/21 0915					X	X	X	X	X	X	X	X	X	X	X	1	PD
MO-MPK	1/29/21 0845					X	X	X	X	X	X	X	X	X	X	X	1	PD
MO-THO	1/29/21 0955					X	X	X	X	X	X	X	X	X	X	X	1	PD
MO-oxN	1/29/21 1110					X	X	X	X	X	X	X	X	X	X	X	1	MC + DL
MO-HUE	1/29/21 1028					X	X	X	X	X	X	X	X	X	X	X	1	MC + DL

Relinquished Printed Name W.B. CAREY

Signature W.B. Carey

Affiliation VCWPD Date/Time 1-29-21/1400

Received Printed Name Silver Contreras

Signature Silver Contreras

Affiliation DCS Date/Time 1-29-21 1400

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).

*[Handwritten Signature]* 1/29/21 1630 1.26 T-0230



**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: 1-29-21

Project Number: 2020/21-2 (Wet) Cleaning

Sampling Team: W.B. CAREY

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	14		14	
Blue cube cooler			14	
<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			12	
Bottle harness			2	

Relinquished Printed Name W.B. CAREY

Signature W.B. Carey

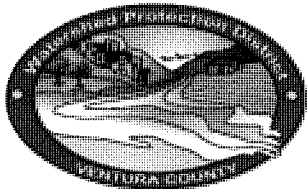
Affiliation VCWPA Date/Time 1-29-21 / 1400

Received Printed Name Silver Contreras

Signature Sil

Affiliation DCB Date/Time 1-29-21 1400

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



**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)

2020/21-3 (Wet) Grabs

Sampling Date: 3-10-21

Project Number: 2020/21-2 (Wet) Grabs

Sampling Team: PD, MD, DL, DW, LS, MC,

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								Number of Bottles	NOTES
ME-CC	3-10-21 1140	1	1	2	3	1								8	PD, MD
ME-SCR	3-10-21 03:50	1	1	2	3	1								8	DL, DW
ME-VR2	3-10-21 3:30	1	1	2	3	1								8	LS & MC
MO-CAM	3-10-21 0220	2	1	2	3	1								10	PD, MD
MO-OJA	3-10-21 2:10	1	1	2	3	1								8	LS & MC
MO-MEI	3-10-21 2:50	1	1	2	3	1								8	LS & MC
MO-VEN	3-10-21 0130	1	1	2	3	1								8	PD, MD
MO-OXN	3-10-21 03:00	1	1	2	3	1								8	DL, DW
FD-1		1	1	2	3	1								8	

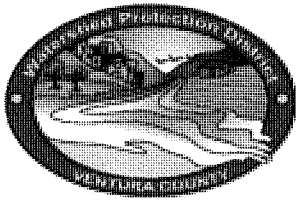
Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.

Relinquished: Printed Name WILLIAM B. CAREY  
 Signature William B. Carey  
 Affiliation UCWPD Date/Time 3-10-21/1450

Received: Printed Name Kenneth Johnson  
 Signature [Signature]  
 Affiliation DCS Date/Time 3/10/21/1450

Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE)  
EPA 624.1 has replaced EPA 624 for MTBE and 2-Cleve

1010110



**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)**

2020/21-3 (Wet) Grabs

Sampling Date:                     3-10-21                    

Project Number: 2020/21-2 (Wet) Grabs

Sampling Team: D. LAAK, D. WILKINSON, J. MCCRORY, JK, P. DORAN, M. DORAN

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							Number of Bottles	NOTES
MO-SPA	3-10-21 01:40	1	1	2	3	1							8	DL, DW
MO-FIL	3-10-21 02:15	1	1	2	3	1							8	DL, DW
MO-SIM	3-10-21/240 <sup>01:40</sup>	1	1	2	3	1							8	JM JK
MO-HUE	3-10-21 0305	1	1	2	3	1							8	PD, MD
MO-THO	3-10-21/1405 <sup>02:38</sup>	1	1	2	3	1							8	JM JK
MO-MPK	3-10-21/1515 <sup>03:15</sup>	1	1	2	3	1							8	JM JK
FB-1		1	1	2	3	1							8	
<p>* SAMPLE TIME CORRECTED PER WECK LABS. BY 3/11/21</p>														

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

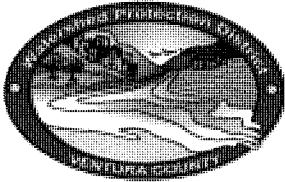
Relinquished Printed Name WILLIAM B. CAREY  
 Signature William B. Carey  
 Affiliation VCWPD Date/Time 3-10-21/1450

Received Printed Name Kenneth Johnson  
 Signature [Signature]  
 Affiliation DCS Date/Time 3-10-21/1450

Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE)  
EPA 624.1 has replaced EPA 624 for MTBE and 2-Cleve

[Signature] 3/10/21 1109 1.6°C T-0239

1C10094



**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)**

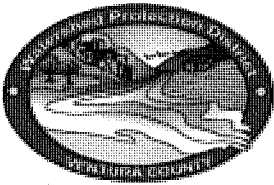
Sampling Date: 3-10-21 Project Number: 2020/21-2 (Wet) Composites  
 Sampling Team: PD, MD, WBC, JM, RP

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	3-10-21/1249			X	X	X	X	X	X	X	X	X	X	X	X	X	1	PD, MD
ME-SCR	3-10-21/1340			X	X	X	X	X	X	X	X	X	X	X	X	X	1	WBC
ME-VR2	3-10-21/1100			X	X	X	X	X	X	X	X	X	X	X	X	X	1	WBC
MO-CAM	3-10-21/0438			X	X	X	X	X	X	X	X	X	X	X	X	X	1	PD, MD
MO-OJA	3/10/21/1000			X	X	X	X	X	X	X	X	X	X	X	X	X	1	JM, RP
MO-MEI	3/10/21/1025			X	X	X	X	X	X	X	X	X	X	X	X	X	1	JM, RP
MO-VEN	3-10-21/1050			X	X	X	X	X	X	X	X	X	X	X	X	X	1	PD, MD

Relinquished Printed Name WILLIAM B. CAREY  
 Signature William B. Carey  
 Affiliation VCWPD Date/Time 3-10-21/1456

Received Printed Name Kenneth Johnson  
 Signature Kenneth Johnson  
 Affiliation DCS Date/Time 3/10/21/1456

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 2 of 2)**

Sampling Date: 3-10-21 Project Number: 2020/21-2 (Wet) Composites

Sampling Team: DL, DW, JM, JK, PD, MD

SAMPLE ID	DATE/TIME COLLECTED																			NOTES
MO-SPA	3-10-21 05:20					X	X	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)
MO-FIL	3/10/21/0905					X	X	X	X	X	X	X	X	X	X	X	X	X	X	DL, DW JM, PD
MO-SIM	3-10-21/1450	04:48				X	X	X	X	X	X	X	X	X	X	X	X	X	X	JM JK
MO-MPK	3-10-21/1422	04:27				X	X	X	X	X	X	X	X	X	X	X	X	X	X	JM JK
MO-THO	3-10-21/1216					X	X	X	X	X	X	X	X	X	X	X	X	X	X	PD, MD
MO-OXN	3-10-21/04:35					X	X	X	X	X	X	X	X	X	X	X	X	X	X	DL, DW
MO-HUE	3/10/21/1115					X	X	X	X	X	X	X	X	X	X	X	X	X	X	JM, PD
*Sample time change request per Kelly Hahs. 3/11/21																BG				

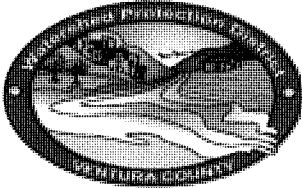
Relinquished Printed Name WILLIAM B. CAREY  
 Signature William B. Carey  
 Affiliation VCWPD Date/Time 3-10-21/1450

Received Printed Name Kenneth Johnson  
 Signature [Signature]  
 Affiliation DCS Date/Time 3/10/21/1450

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).

[Signature] 3/10/21 1709 1.8°C  
 T-0739





**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: 3-10-21

Project Number: 2020/21-2 (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	14			
Blue cube cooler	14		14	
<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			12	
Bottle harness			2	

Relinquished Printed Name WILLIAM B. CAREY  
 Signature William B. Carey  
 Affiliation VCWPA Date/Time 3-10-21/1450

Received Printed Name Kenneth Johnson  
 Signature [Signature]  
 Affiliation DCS Date/Time 3/16/21/1450

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



1229050

## 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: 4/29/2021  
 Sampling Team: WBC, KH

Project Number: 2020/21-4(DM) Grabs CCW

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (LUFT GC/MS)	MPDE 8-2020 (EPA 604/1)	Total coliform + E. coli (colilet, 3 diluting)	Number of Bottles	NOTES
ME-CC	4/29/2021 10:00	2	1	2			5	
<del>MO-MPK</del>		<del>1</del>	<del>1</del>	<del>2</del>			<del>5</del>	DRY
<del>MO-SIM</del>	4/29/2021 08:20	1	1	2			5	
MO-CAM	10:35	1	1	2			5	
<del>MO-THO</del>	↓ 09:15	1	1	2			5	
<del>MO-MIN</del>		1	1	2			5	
<del>MO-OWN</del>		1	1	2			5	
<del>ED-1</del>		1	1	2			5	

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 VCWPD Date/Time 4/29/2021 12:20 PDT (pm)

Received Printed Name Carla Dominguez  
 Signature [Signature]  
 Affiliation RMS/Weck Labs Date/Time 4-29-2021 12:20 pm

All times PDT

Other Notes: Travel blanks are only to be analyzed if samples have also been analyzed \* 3 dilutions for EPA 624.1 has replaced EPA 624 for MURE and 2 Clove bacteria samples 1:10 1:100 1:1000  
Please set up bacteria analyses on receipt. (sample hold time 6hr delivery to lab + 2hr for setup, 8hr total)



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

1229032

Project: NPDES Stormwater Wet Season (Contract AE17-001)  
 Composites - Weck Laboratories (SIDE 1 of 1)

Sampling Date: 4/29/2021  
 Sampling Team: WBC, KH

Project Number: 2020/21-4 (024) Composites CCW

SAMPLE ID	DATE/TIME COLLECTED	Total Chlorine Residual using samplers blank bottles	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, 525-OPP-HH (replace w 625-OPP)	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
ME-CC	4/29/2021 10:00	X	X	X	X	X	X	X	X	X	X	X	X	1	
<del>MO-MPK</del>	07:40			X	X	X	X	X	X	X	X	X	X	1	
<del>MO-SIM</del>	08:20			X	X	X	X	X	X	X	X	X	X	1	
MO-CAM	10:35			X	X	X	X	X	X	X	X	X	X	1	
<del>MO-THO</del>	09:15			X	X	X	X	X	X	X	X	X	X	1	
<del>MO-THO</del>															
<del>MO-THO</del>															

Relinquished Printed Name KELLY HAHS  
 Signature [Signature]  
 Affiliation VCSWD Date/Time 4/29/2021 12:20 pm (PDT)

Received Printed Name C. Dominguez Carla Dominguez L. Moral 4<sup>th</sup> TOSU  
 Signature [Signature] [Signature] [Signature]  
 Affiliation RMS/Weck Labs Date/Time 4-29-2021 12:20 pm

All things POT

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).

\*Please also perform total chlorine residual analyses for ME-CC w/ sample used as autozero



1d29082

**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: 4/29/2021 Project Number: 2020/21-4 <sup>(copy)</sup> ~~(copy)~~ Cleaning CCW

Sampling Team: WBC, 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	5				
Blue cube cooler			5		
Grey bucket					Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Black bottle bag			5		
Bottle harness					

Relinquished Printed Name Kelly Hahs

Signature [Signature]

Affiliation VCWPD Date/Time 4/29/2021 12:20 pm (PDT)

Received Printed Name Carla Dominguez L. Ahmad 4- TRSU

Signature [Signature] [Signature] 4-29-21 14:29

Affiliation RMS/weck Labs Date/Time 4-29-2021 12:20 pm

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



**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)**

1227046

Sampling Date: 4/27/2021 Project Number: 2020/21-4 (Dry) Grabs  
 Sampling Team: WBC, K.H. Grabs SCRW

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (LUFT GC/MS)	Total coliform E. coli (Colibert Tray)*	Number of Bottles	NOTES
<del>ME-SCR</del> ME-SCR	4/27/2021 10:10	2	1	2	-	6	
<del>MO-FIL</del> MO-FIL	↓ 09:00	1	1	2	-	5	
<del>MO-SPA</del> MO-SPA					+	5	DRY
<del>MO-DAN</del> MO-DAN					+	5	DRY
<del>MO-VEN</del> MO-VEN					+	5	DRY
<del>MO-XXX</del>						1	
<del>MO-XXX</del>						1	
<del>MO-XXX</del>						1	
<del>MO-XXX</del>						1	

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 4-27-21/1245

Received Printed Name Carla Dominguez  
 Signature Carla Dominguez  
 Affiliation Weck Labs/RMS Date/Time 04-27-2021 12:45pm

Other Notes: Times PDT: [redacted] samples have lots of MPDE of [redacted] \*3 dilutions for bacteria samples 1:10 1:100 1:1000  
Please Analyze bacteria samples upon receipt (6-hr hold time for lab, 8hr total for setup).  
Jamie [redacted] 4/27/21 14:50 3.22 70239



**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)**

1D27043

Sampling Date: 4/27/2021  
 Sampling Team: WBC, KH

Project Number: 2020/21-4 (Dry) Composites SCRW

SAMPLE ID	DATE/TIME COLLECTED	CTAS (see 1.5.4.2)	CTAS (see 1.5.4.2)	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 8015-D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES
<del>ME-SCR</del>	4/27/2021 1000			X	X	X	X	X	X	X	X	X	X	X	1	
<del>MO-FIL</del>	↓ 0900				X	X	X	X	X	X	X	X	X	X	1	
<del>MO-SPA</del>																DRY
<del>MO-OXN</del>																DRY
<del>MO-VEN</del>																DRY
<del>MO-FLN</del>				X												

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)

Relinquished Printed Name WILLIAM B. CAREY  
 Signature William B. Carey  
 Affiliation: VCWPD Date/Time 4-27-21/1245

Received Printed Name Carla Dominguez  
 Signature C. Dominguez  
 Affiliation Week Labs/RMS Date/Time 4-27-21 12:45pm

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).  
 3) ~~CTAS (SM 5540D) as a separate CCR (Times PDT)~~

Jannah 4/27/21 14:50 3.2°C 70239



1027043

**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: 4/27/2021 Project Number: 2020/21-~~4~~<sup>4 (day)</sup> Cleaning  
 Sampling Team: WBC KH

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
<del>10.5 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	2			
Blue cube cooler			2	
<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			2	
<del>Bottle harness</del>				

Relinquished Printed Name WILLIAM B. CAREY  
 Signature William B. Carey  
 Affiliation VCWPD Date/Time 4-27-21 / 1245

Received Printed Name Carla Dominguez  
 Signature C-Do  
 Affiliation Week Labs / RMS Date/Time 4-27-21 - 12:45 pm

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 1)**

1E12028

Sampling Date: 5/12/2021

Project Number: 2020/214 <sup>(D)</sup> Composites VRW+HUE

Sampling Team: W.G. CAREY & HAHS

SAMPLE ID	DATE/TIME COLLECTED	<del>Metals by 200.8, Total &amp; Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg</del>	<del>Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.)</del>	<del>608 include alpha- &amp; gamma-chlordane</del>	<del>* Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, &amp; 8270SIM-PHENOLS</del>	<del>Lab to select samples for MS/MSD where extra volume permits (all test methods)</del>	Metals, total & dissolved (+ Hardness), & Barium (total only)	Crt6	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, 525-OPP-LL-(replace w 625-OPP)	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	NOTES	
<del>ME-VR2</del>	<del>5/12/2021 09:00</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>1</del>		
ME-VR2	5/12/2021 09:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	
<del>MO-OJA</del>	<del>---</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>1</del>	Sample issue
MO-MBT	---	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	DRY
<del>MO-PAE</del>	<del>5/12/21 09:50</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>X X X X X X X X X X X X X X</del>	<del>1</del>	
MO-PAE	5/12/21 09:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	

Relinquished Printed Name KELLY HAHS

Signature [Signature]

Affiliation VCWAD Date/Time 5/12/2021 11:53

Received Printed Name [Signature]

Signature [Signature]

Affiliation KAHS Date/Time 5/12/21

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

Jannah 5/12/21 14:48  
 3.0°C T0234



1E12028

**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: 5/12/2021

Sampling Team: K. HAHS

Project Number: 2020/21-~~4~~<sup>(DM)</sup> Cleaning VRW + MUE

EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
18.5 L wide neck carboy and lid	1			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	2			
Blue cube cooler			2	
Grey bucket				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Black bottle bag			2	
Bottle harness				

Relinquished Printed Name KELLY HAHS

Signature *Kelly HaHS*

Affiliation VCWPD Date/Time 5/12/2021 / 11:53

Received Printed Name *[Signature]*

Signature *[Signature]*

Affiliation RWS ce Date/Time 5/12/21

Other Notes: All times PDT



1E13050

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

Sampling Date: 5/13/2021  
 Sampling Team: W.B. CAREY, K. HAYS

Project Number: 2020/21-4 (Dry) Composites VRW(OJA)

SAMPLE ID	DATE/TIME COLLECTED																		
MO-OJA	5/13/2021 0955																		

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.)

608.3 include alpha- & gamma-chlordane

\* Same extraction with low-level spike for 3 methods: 625.1-CTR, 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 VCWPD Date/Time 5-13-21/1215

Received Printed Name Lisa Marie Pitts  
 Signature [Signature]  
 Affiliation DCS/Weck Date/Time 5-13-21/1215

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

Janaham 5/13/21 15:10 2.0°C  
 T0230



1E13050

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

Sampling Date: 5/13/2021

Project Number: 2020/21-4 (Dry) Cleaning VRW(OJA)

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

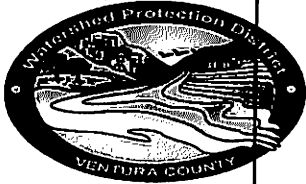
EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
18.5 L wide neck carboy and lid				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
20 L narrow neck carboy and lid (+assembly) or silicone stopper	1			Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Silicone stoppers				
Blue cube cooler			1	
Grey bucket				
Black bottle bag			1	
Bottle harness				

Relinquished Printed Name WILLIAM CAREY  
 Signature William Carey  
 Affiliation VCWPD Date/Time 5-13-21/1215

Received Printed Name Lisa Marie Potts  
 Signature [Signature]  
 Affiliation DSC/Weck Date/Time 5-13-21/1215

Other Notes: \* Allow to air dry (don't rinse) after methanol step to avoid organics contamination.  
Record the bottles cleaned with methanol.

Jamie/M 5/13/21 15:10 28°C  
70230



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

Please invoice: MA FRUITGROWERLFY22MA01 UNIT 4211PWA Attn: Kelly Hahs

2110671

Sampling Date: 8/10/21

Sample Event: DRY 2021

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

SAMPLE ID	DATE/TIME COLLECTED	Total Coliform and E. coli (Colifert) [x 10, x 100, and x 1000 dilutions]	Number of Bottles	NOTES
<del>Camacillo-1</del>		X	1	
Fillmore-1	8/10/21 09:30	X	1	
<del>Moorpark-1</del>		X	1	
Ojai-7	8/10/21 11:00	X	1	
Oxnard-2	8/10/21 07:50	X	1	
Port Hueneme-3	8/10/21 12:45	X	1	
<del>Santa Paula-2</del>		X	1	
<del>Simi Valley-1</del>		X	1	
<del>Thousand Oaks-1</del>		X	1	
<del>Unincorporated-4</del>		X	1	
Ventura-5	8/10/21 11:40	X	1	

Relinquished Printed Name WILLIAM CAREY  
 Signature William Carey  
 Affiliation VCWPD Date/Time 8-10-21 / 1330

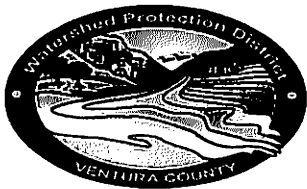
Received Printed Name Celina Arenas  
 Signature Celina Arenas  
 Affiliation GLS Date/Time 13:36

7°C

Other Notes: Samples are all urban runoff grabs. VCWPD contact: Kelly.Hahs@ventura.org (805) 658-4375

Please test at x10, x100, and x1000 dilutions and analyze within 2 hours of receipt at the lab.

2110998



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

Please invoice: MA FRUITGROWERLFY22MA01 UNIT 4211PWA Attn: Kelly Hahs

Sampling Date: 8/11/21 Sample Event: DRY 2021

Sampling Team: WB. CAREY, K. HAHS

Table with columns: SAMPLE ID, DATE/TIME COLLECTED, Total Coliform and E. coli (Coli) [x 10, x 100, and x 1000 dilutions], Number of Bottles, NOTES. Rows include Camarillo-1, Fillmore-1, Moorpark-1, Ojai-1, Oxnard-1, Port Huaceme-3, Santa Paula-4, Simi Valley-1, Thousand Oaks-1, Unincorporated-4, Ventura-1.

Relinquished Printed Name KELLY HAHS

Signature [Handwritten Signature]

Affiliation VCWPD Date/Time 8/11/21 12:30

Received Printed Name [Handwritten Name]

Signature [Handwritten Signature]

Affiliation Fgl Date/Time 8/11/21 12:30

Other Notes: Samples are all urban runoff grabs. VCWPD contact: Kelly.Hahs@ventura.org (805) 658-4375

Please test at x10, x100, and x1000 dilutions and analyze within 2 hours of receipt at lab. All times P.D.T.



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

1H11100

Invoice Contract No. AE17-001 Mod No. 6

Sampling Date: 8/10/21 + 8/11/21 Sample Event: DRY ~~2021~~ 2021  
 Sampling Team: WB. CAREY

SAMPLE ID	DATE/TIME COLLECTED	Total Hardness	TOC	Dissolved Metals by 200.8 (Lead, Zinc, Copper) (need lab-filtered)	Number of Bottles	NOTES
Camarillo-1	8/11/21 07:30	X	X	X		
Fillmore-1	8/10/21 09:30	X	X	X		
Moorpark-1	8/11/21 08:15	X	X	X		
Ojai-7	8/10/21 11:00	X	X	X		
Oxnard-2	8/10/21 07:50	X	X	X		
Port Hueneme-3	8/10/21 12:45	X	X	X		SAMPLE
Santa Paula-4	8/11/21 11:35	X	X	X		SAMPLE
Simi Valley-1	8/11/21 09:00	X	X	X		
Thousand Oaks-1	8/11/21 10:10	X	X	X		
Unincorporated-4	8/11/21 09:30	X	X	X		
Ventura-5	8/10/21 11:40	X	X	X		

Relinquished Printed Name W.B. CAREY  
 Signature W.B. Carey  
 Affiliation VCWPD Date/Time 8-11-21 / 1500

Received Printed Name ALLAN GROSSBERG  
 Signature [Signature]  
 Affiliation WECK Date/Time 8-11-21 / 1500

Other Notes: Lead, copper, zinc to be lab filtered & dissolved.  
All times PDT.

RELINQ X ALLAN GROSSBERG all 8/11/21 1800  
L. Abzad for 8/11/21 18:00 4" 70284